

GRVER51.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T G A T C T A C C G G C C C C A G A A C	40
GR6.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T G A T C T A C C G G C C C C A G A A C	40
GRVER5.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T G A T C T A C C G G C C C C A G A A C	40
GRVER4.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T G A T C T A C C G G C C C C A G A A C	40
GRVER3.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T G A T C T A C C G G C C C C A G A A C	40
GRVER2.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T C A T C T A C C G G C C C C A G A G C	40
GRVER1.SEQ	A T G A T G A A A	A C G C C G A A A A A G A A C C G T C A T C T A C C G G C C C C A G A G C	40
YG81-6G1.SEQ	A T G A T G A A A A G C G G A G A G A A A A A T G T T A T A T A T G G A C C C G A A C	40	
RDVER1.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T G A T T T A T G G T C C C T G A A C	40	
RDVER2.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T G A T T T A T G G T C C C T G A A C	40	
RDVER3.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RDVER4.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RDVER5.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RD7.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RDVER51.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RDVER52.SEQ	A T G A T G A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
RD1561H9.SEQ	A T G A T A A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G G C	40	
GRVER51.SEQ	C A C T G C A T C C A C T T G G A A G A C C C T C A C C G C T G G T G A G A G A T G C T	80	
GR6.SEQ	C A C T G C A T C C A C T T G G A A G A C C C T C A C C G C T G G T G A G A G A T G C T	80	
GRVER5.SEQ	C A C T G C A T C C A C T T G G A A G A C C C T C A C C G C T G G T G A G A G A T G C T	80	
GRVER4.SEQ	C A C T G C A T C C A C T T G G A A G A C C C T C A C C G C T G G T G A G A G A T G C T	80	
GRVER3.SEQ	C A C T G C A T C C A C T T G G A A G A C C C T C A C C G C T G G T G A G A G A T G C T	80	
GRVER2.SEQ	C T C T G C A C C C A T T T G G A A G A C C C T G A C C G C T G G T G A G A G A T G T T	80	
GRVER1.SEQ	C T C T G C A C C C A T T T G G A A G A C C C T G A C C G C C G G T G A G A G A T G T T	80	
YG81-6G1.SEQ	C C C T A C A C C C C T T G G A A G A C T T T A A C A G C T G G A G A A A T G C T	80	
RDVER1.SEQ	C A T T G C A T C C T C T T G G A G G A T T T T G A C T G C T G G C G A A A T G C T	80	
RDVER2.SEQ	C A T T G C A T C C T C T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RDVER3.SEQ	C T T T G C A C C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RDVER4.SEQ	C T T T G C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RDVER5.SEQ	C T C T C C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RD7.SEQ	C T C T C C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RDVER51.SEQ	C T C T C C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RDVER52.SEQ	C T C T C C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
RD1561H9.SEQ	C T C T C C A T C C T T T G G A G G A T T T T G A C T G C C C G G C G A A A T G C T	80	
GRVER51.SEQ	C T T C C G A G C A C T G C G T A A A C A T A G T C A C C C T C C C C T C A A G C A	120	
GR6.SEQ	C T T C C G A G C A C T G C G T A A A C A T A G T C A C C C T C C C C T C A A G C A	120	
GRVER5.SEQ	C T T C C G A G C A C T G C G T A A A C A T A G T C A C C C T C C C C T C A A G C A	120	
GRVER4.SEQ	C T T C C G T G C A C T G C G T A A A C A T A G T C A C C C T C C C C T C A A G C T	120	
GRVER3.SEQ	G T T C C G T G C C C T G C G T A A A C A T A G C C A C C C T C C C C T C A A G C T	120	
GRVER2.SEQ	G T T C C G T G C T C T G C G T A A A C A T T C T C A C C T T G C C T C A A G C C	120	
GRVER1.SEQ	G T T C C G T G C T C T G C G T A A A C A T T C T C A C C T T G C C T C A A G C C	120	
YG81-6G1.SEQ	C T T C C G T G C C C T T C G A A A A C A T T T C T C A T T T A C C G C A G G C T	120	
RDVER1.SEQ	G T T T C G C G C C T T G C G C A A G C A C A G C C A T C T G C C A C A G G C T	120	
RDVER2.SEQ	G T T T C G C G C C T T G C G C A A G C A C A G C C A T C T G C C A C A G G C T	120	
RDVER3.SEQ	G T T T C G C G C C T T G C G T A A A G C A C T C T C A T T T G C C T C A A G G C C	120	
RDVER4.SEQ	G T T T C G T G C T T T G C G T A A A C A C T C T C A T T T G C C T C A A G G C C	120	
RDVER5.SEQ	G T T T C G T G C T C T C C G C A A G C A C T C T C A T T T G C C T C A A G G C C	120	
RD7.SEQ	G T T T C G T G C T C T C C G C A A G C A C T C T C A T T T G C C T C A A G G C C	120	
RDVER51.SEQ	G T T T C G T G C T C T C C G C A A G C A C T C T C A T T T G C C T C A A G G C C	120	
RDVER52.SEQ	G T T T C G T G C T C T C C G C A A G C A C T C T C A T T T G C C T C A A G G C C	120	
RD1561H9.SEQ	G T T T C G T G C T C T C C G C A A G C A C T C T C A T T T G C C T C A A G G C C	120	

**FIG. 2**

GRVER51.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A G C C T C T C C T A C A A A G 160  
 GR6.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A A C C T C T C C T A C A A A G 160  
 GRVER5.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A G C C T C T C C T A C A A A G 160  
 GRVER4.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A G C C T C T C T T A C A A A G 160  
 GRVER3.SEQ C T C G T G G A C G T C G T G G G T G A C G A G A G C C T G T C T T A C A A A G 160  
 GRVER2.SEQ C T G G T C G A T G T C G T G G G C G A C G A G A G C T T G T C T T A T A A G G 160  
 GRVER1.SEQ C T G G T G G A T G T C G T G G G C G A C G A A A G C T T G T C T T A T A A G G 160  
 YG81-6G1.SEQ T T A G T A G A T G T G G T T G G G C G A C G A A T C G C T T T C C T A T A A A G 160  
 RDVER1.SEQ T T G G T C G A C G T G G T C G G T G A T G A G C T C T G A G G C T A C A A A G 160  
 RDVER2.SEQ T T G G T G G A C G T G G T C G G T G A T G A A T C T C T G A G G C T A C A A A G 160  
 RDVER3.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A T A A G G 160  
 RDVER4.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160  
 RDVER5.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160  
 RD7.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160  
 RDVER51.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160  
 RDVER52.SEQ T T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160  
 RD1561H9.SEQ T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G G C T A C A A A G G 160

GRVER51.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T C C C A 200  
 GR6.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T C C C A 200  
 GRVER5.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T C C C A 200  
 GRVER4.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T C C C A 200  
 GRVER3.SEQ A A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T G C A 200  
 GRVER2.SEQ A A T T T T T C G A A G C T A C T G T C C T G T T G G C C C A A A T C T C T G C A 200  
 GRVER1.SEQ A G T T T T T T C G A A G C T A C T G T C C T G T T G G C C C A G T C T C T G C A 200  
 YG81-6G1.SEQ A G T T T T T T G A A G C G A C A G T C C T C C T A G G C G C A A A G T C T C C A 200  
 RDVER1.SEQ A A T T C T T T G A G G G C C A C C G T G T T G C T G G C T C A A A G C T T T G C A 200  
 RDVER2.SEQ A G T T C T T T G A G G G C C A A C C G T G T T G C T G G C T C A G A G C T T T G C A 200  
 RDVER3.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C T T T G C A 200  
 RDVER4.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C T T G C A 200  
 RDVER5.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C C T C C A 200  
 RD7.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C C T C C A 200  
 RDVER51.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C C T C C A 200  
 RDVER52.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C C T C C A 200  
 RD1561H9.SEQ A G T T T T T T G A G G G C C A A C C G T C T T G C T G G C T C A G T C C C T C C A 200

GRVER51.SEQ T A A T T G T G G G T A C A A A A T G A A C G A T G T G G T G A G C A T T T T G T 240  
 GR6.SEQ T A A T T G T G G G T A C A A A A T G A A C G A T G T G G T G A G C A T T T T G T 240  
 GRVER5.SEQ T A A T T G T G G G T A C A A A A T G A A C G A T G T G G T G A G C A T T T T G T 240  
 GRVER4.SEQ T A A T T G T G G A T A C A A A A T G A A C G A T G T G G T G A G C A T T T T G T 240  
 GRVER3.SEQ T A A T T G T G G T T A C A A A A T G A A C G A T G T G G T G A G C A T C T G T 240  
 GRVER2.SEQ T A A T T G C G G T T A C A A A A T G A A C G A T G T G G T C A G C A T T T T G T 240  
 GRVER1.SEQ T A A T T G C G G T T A C A A A A T G A A C G A T G T G G T C A G C A T T T T G T 240  
 YG81-6G1.SEQ C A A T T G T G G A T A C A A G A T G A A T G A T G T G A T G T G C A T C T G C 240  
 RDVER1.SEQ C A A C T G T G G C T A T A A G A T G A A T G A C G T C G T G T C T A T C T G C 240  
 RDVER2.SEQ C A A C T G T G G C T A T A A G A T G A A T G A C G T C G T G T C T A T C T G C 240  
 RDVER3.SEQ T A A T T G C G G C T A C A A G A T G A A C G A C G T C G T C T C T A T T T G T 240  
 RDVER4.SEQ T A A T T G T G G C T A C A A G A T G A A C G A C G T C G T C T C C A T T T G T 240  
 RDVER5.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240  
 RD7.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240  
 RDVER51.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240  
 RDVER52.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240  
 RD1561H9.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240

FIG. 2 (cont'd)

GRVER51.SEQ	G C T G A G A A 'T A 'A C A C T C G C T T [C] T T T A T T C C T   G T A A T C G C T G 280
GR6.SEQ	G C T G A G A A T A A C A C T C G C T T [C] T T T A T T C C T   G T A A T C G C T G 280
GRVER5.SEQ	G C T G A G A A T A A C A C T C G C T T [C] T T T A T T C C T   G T A A T C G C T G 280
GRVER4.SEQ	G C T G A G A A T A A C A C T C G C T T [C] T T T A T T C C C T G T T A T C G C T G 280
GRVER3.SEQ	G C T G A G A A T A A C A C T C G C T T T T T A T C C C T G T G A T C G C T G 280
GRVER2.SEQ	G C T G A G A A T A A C A C C C G C T T T T T C A T C C C A G T G A T T G C C G 280
GRVER1.SEQ	G C T G A G A A T A A C A C C C G C T T T T T C A T C C C A G T G A T T G C C G 280
YG81-6G1.SEQ	G C C G A A A A C A A T A C A A G A T T T T T A T T C C C G T T A T T G C A G 280
RDVER1.SEQ	G C C G A A A A C A A T A C T C G T T T [C] T T T A T T C C T   G T C A T C G C T G 280
RDVER2.SEQ	G C C G A A A A C A A T A C T C G T T T [C] T T T A T T C C T   G T C A T C G C T G 280
RDVER3.SEQ	G C C G A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RDVER4.SEQ	G C A G A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RDVER5.SEQ	G C T G A A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RD7.SEQ	G C T G A A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RDVER51.SEQ	G C T G A A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RDVER52.SEQ	G C T G A A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
RD1561H9.SEQ	G C T G A A A A A C A A T A C C C C G T T T [C] T T T C A T T C C A G T C A T C G C C G 280
GRVER51.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C T G T   G A A T G A A T C 320
GR6.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
GRVER5.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
GRVER4.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
GRVER3.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
GRVER2.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
GRVER1.SEQ	C T T G G T A C A T C G G C A T G A T T G T [C] G C C C C C T G T   G A A T G A A T C 320
YG81-6G1.SEQ	C T T G G T A T A T T G G T A T G A T T G T A G C A C C T G T T A A T G A A A G 320
RDVER1.SEQ	C C T G G T A T A T T G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER2.SEQ	C C T G G T A T A T T G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER3.SEQ	C C T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER4.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER5.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RD7.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER51.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RDVER52.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
RD1561H9.SEQ	C A T G G T A T A T C G G T A T G A T [C] G T G G C T C C A G T C A A A C G A G A G 320
GRVER51.SEQ	T T A C A T C C C A G A T G A [G] C T G T G T A A G G T T   T A T G G G T A T T T A G C 360
GR6.SEQ	T T A C A T C C C A G A T G A [G] C T G T G T A A G G T T   T A T G G G T A T T T A G C 360
GRVER5.SEQ	T T A C A T C C C A G A T G A [G] C T G T G T A A G G T T   T A T G G G T A T T T A G C 360
GRVER4.SEQ	T T A C A T C C C A G A T G A [G] C T G T G T A A G G T T   T A T G G G T A T T T A G C 360
GRVER3.SEQ	T T A C A T C C C A G A T G A G T T   G T G T A A G G T G A T G G G T A T T T A G C 360
GRVER2.SEQ	T T A T [A] T C C C A G A C G A G T T   G T G C A A G G T C A T G G G T A T T T A G C 360
GRVER1.SEQ	T T A T [A] T C C C A G A C G A G T T   G T G C A A G G T C A T G G G T A T T T A G C 360
YG81-6G1.SEQ	T A C A T C C C A G A T G A A C T C T G T A A G G T G A T G G G T A T A T C G 360
RDVER1.SEQ	C T A C A T T C C T G A T G A A C T G T G T A A A G T G A T G G G C A T C T C T 360
RDVER2.SEQ	C T A C A T T C C T G A T G A A C T G T G T A A A G T G A T G G G C A T C T C T 360
RDVER3.SEQ	C T A C A T T C C T G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RDVER4.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RDVER5.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RD7.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RDVER51.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RDVER52.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360
RD1561H9.SEQ	C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360

FIG. 2 (cont'd)

GRVER51.SEQ	A A A C C T C A A A T C G T C T T T A C T A C C A A A A A C A T C T T G A A T A	400
GR6.SEQ	A A A C C T C A A A T C G T C T T T A C T A C C A A A A A C A T C T T G A A T A	400
GRVER5.SEQ	A A A C C T C A A A T C G T C T T T A C T A C C A A A A A C A T C T T G A A T A	400
GRVER4.SEQ	A A A C C T C A A A T C G T C T T T A C T A C C A A A A A T A T C C T G A A T A	400
GRVER3.SEQ	A A A C C T C A A A T C G T C T T T A C T A C C A A A A A C A T C C T G A A T A	400
GRVER2.SEQ	A A A C C T C A A A T C G T G T T T A C T A C C A A G A A C A T T C T G A A T A	400
GRVER1.SEQ	A A A C C T C A A A T C G T G T T T A C T A C C A A G A A C A T T C T G A A T A	400
YG81-6G1.SEQ	A A C C A C A A A T A G T T T T T A C G A C A A A G A A C A T T T A A A T A	400
RDVER1.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A A A A T A T C T T G A A C A	400
RDVER2.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A A A A T A T C T T G A A C A	400
RDVER3.SEQ	A A G C C A C A G A T T G T G T T C A C C C A C T A A G A A T A T T T T G A A C A	400
RDVER4.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400
RDVER5.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400
RD7.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400
RDVER51.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400
RDVER52.SEQ	A A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400
RD1561H9.SEQ	A G C C A C A G A T T G T C T T C A C C C A C T A A G A A T A T T C T G A A C A	400

GRVER51.SEQ	A G G T C T T G G A A G T C C A G T C T C G T A C T A A C T T C A T C A A A C G	440
GR6.SEQ	A G G T C T T G G A A G T C C A G T C T C G T A C T A A C T T C A T C A A A C G	440
GRVER5.SEQ	A G G T C T T G G A A G T C C A G T C T C G T A C T A A C T T C A T C A A A C G	440
GRVER4.SEQ	A G G T C T T G G A A G T C C A G T C T C G T A C T A A C T T C A T C A A A C G	440
GRVER3.SEQ	A G G T C T T G G A A G T C C A G T C T C G T A C T A A T T C A T C A A A C G	440
GRVER2.SEQ	A G G T C T T G G A A G T G C A G T C T C G T A C T A A C T T C A T C A A G C G	440
GRVER1.SEQ	A A G T C T T G G A A G T G C A G T C T C G T A C T A A C T T C A T C A A G C G	440
YG81-6G1.SEQ	A G G T A T T G G A G G G T A C A G A G C A G A A C T A A T T C A T A A A A A G	440
RDVER1.SEQ	A G G T G C T T G G A G G G T C C A A A G G C C G C A C C C A A T T T T A T T A A A A C G	440
RDVER2.SEQ	A A G T G C T T G G A G G G T C C A A A G G C C G C A C C C A A T T T T A T T A A A A C G	440
RDVER3.SEQ	A A G T G C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RDVER4.SEQ	A A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RDVER5.SEQ	A A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RD7.SEQ	A A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RDVER51.SEQ	A A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RDVER52.SEQ	A A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440
RD1561H9.SEQ	A G T C C T T G G A A G T C C A A A G G C C G C A C C C A A C T T T T A T T T A A A G C G	440

GRVER51.SEQ	C A T C A T T A T T C T G G A T A C C G T C G A A A A A C A T C C A C G G C T G T	480
GR6.SEQ	C A T C A T T A T T C T G G A T A C C G T C G A A A A A C A T C C A C G G C T G T	480
GRVER5.SEQ	C A T C A T T A T T C T G G A T A C C G T C G A A A A A C A T C C A C G G C T G T	480
GRVER4.SEQ	C A T C A T T A T T C T G G A T A C C G T C G A A A A A C A T C C A T G G G C T G T	480
GRVER3.SEQ	C A T T A T T A T T C T G G A T A C C G T C G A A A A A C A T C C A C G G C T G T	480
GRVER2.SEQ	C A T T A T C A T T C T G G A T A C C G T C G A G G A A T A T C C A C G G C T G T	480
GRVER1.SEQ	C A T T A T C A T T C T G G A T A C C G T C G A G G A A T A T C C A C G G C T G T	480
YG81-6G1.SEQ	G A T C A T C A T A C T T G A T A C T G T A G A A A A A C A T A C A C G G T T G T	480
RDVER1.SEQ	T A T C A T T A T C T T G G A C A C T G T G G A A A A A C A T T C A T G G T T G C	480
RDVER2.SEQ	T A T C A T T A T C T T G G A C A C T G T G G A A A A A C A T T C A T G G T T G C	480
RDVER3.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A T G G T T G C	480
RDVER4.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480
RDVER5.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480
RD7.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480
RDVER51.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480
RDVER52.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480
RD1561H9.SEQ	T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C	480

**FIG. 2 (cont'd)**

GRVER51.SEQ	G A G G A G C C C T C C C T A A C T T T C A T C T C T C G T T A C A G G C G A T G G G T A 520
GR6.SEQ	G A G G A G C C C T C C C T A A C T T T C A T C T C T C G T T A C A G G C G A T G G G T A 520
GRVER5.SEQ	G A G G A G C C C T C C C T A A C T T T C A T C T C T C G T T A C A G G C G A T G G G T A 520
GRVER4.SEQ	G A G G A G C C T G C C T A A C T T T C A T C T C T C G T T A C A G G C G A T G G G T A 520
GRVER3.SEQ	G A G G A G C T T G C C T A A C T T T A T C T C T C G T T A C A G G C G A T G G G T A 520
GRVER2.SEQ	G A G G A G C T T G C C A A A C T T T A T T C T C G T T A T A G G C G A C G G G T A 520
GRVER1.SEQ	G A A A G C T T G C C A A A C T T T A T T C T C G T T A T A G G C G A C G G G T A 520
YG81-6G1.SEQ	G A A A G T C T T C C C A A T T T T A T T T C T C G T T A T T C G G A T G G G A 520
RDVER1.SEQ	G A G T C T C T G C C T A A T T T C A T C A G G C C G C T A C T C T G A T G G G C A 520
RDVER2.SEQ	G A A T C T C T G C C T A A T T T C A T C A G G C C G C T A C T C T G A T G G G C A 520
RDVER3.SEQ	G A A T C T C T G C C T A A T T T C A T T A G G C C G C T A T T C T G A C G G G C A 520
RDVER4.SEQ	G A A T C T T T G C C T A A T T T T A T T A G G C C G C T A T T C A G A C G G G A 520
RDVER5.SEQ	G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G G C A 520
RD7.SEQ	G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G G C A 520
RDVER51.SEQ	G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G G C A 520
RDVER52.SEQ	G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G G C A 520
RD1561H9.SEQ	G A A T C T T T G C C T A A T T T C A T C T C T C G C T A T T C A G A C G G G C A 520
GRVER51.SEQ	A T A T C G C T A A T T T T C A A A G C C C C T T G C A T T T T T G A T C C C A G T C G A 560
GR6.SEQ	A T A T C G C T A A T T T T C A A A G C C C C T T G C A T T T T T G A T C C C A G T C G A 560
GRVER5.SEQ	A T A T C G C T A A T T T T C A A A G C C C C T T G C A T T T T T G A T C C C A G T C G A 560
GRVER4.SEQ	A T A T C G C T A A T T T T C A A A A A C C A C T G C A T T T T T G A T C C C A G T C G A 560
GRVER3.SEQ	A T A T C G C T A A T T T T C A A A G G C C A C T G C A T T T T T G A T C C C A G T C G A 560
GRVER2.SEQ	A T A T C G C T A A C T T C A A A G G C C C T C T G C A T T T T T G A T C C C A G T G G G A 560
GRVER1.SEQ	A T A T C G C T A A C T T C A A A G G C C C T C T G C A T T T T T G A T C C C A G T G G G A 560
YG81-6G1.SEQ	A T A T T G C C A A C T T C A A A C C T T T A C A T T T C G A T C C T G T T G A 560
RDVER1.SEQ	A C A T T G C C A A T T T T T A A A C C A T T T G C A C T T C G A C C C T G T C G A 560
RDVER2.SEQ	A C A T T G C C A A T T T T T A A A C C A T T T G C A C T T C G A C C C T G T C G A 560
RDVER3.SEQ	A C A T T G C C C A A C T T T T A A A C C C T T T G C A T T T C G A C C C C T G T G G G A 560
RDVER4.SEQ	A C A T T G C C C A A C T T T T A A A G G C C T C T C C A T T T C G A C C C C T G T G G G A 560
RDVER5.SEQ	A C A T T G C C C A A C T T T T A A A A C C A C T T C C C A C T T C G A C C C C T G T G G G A 560
RD7.SEQ	A C A T T G C C C A A A C T T T T A A A A C C A C T T C C C A C T T C G A C C C C T G T G G G A 560
RDVER51.SEQ	A C A T T G C C C A A A C T T T T A A A A C C A C T T C C C A C T T C G A C C C C T G T G G G A 560
RDVER52.SEQ	A C A T T G C C C A A A C T T T T A A A A C C A C T T C C C A C T T C G A C C C C T G T G G G A 560
RD1561H9.SEQ	A C A T T G C C C A A A C T T T T A A A A C C A C T T C C C A C T T C G A C C C C T G T G G G A 560
GRVER51.SEQ	G C A A G T G G C C G C T A T T T T T G T G C T C C C T C C G G C A C C C A C T G G G T 600
GR6.SEQ	G C A A G T G G C C G C T A T T T T T G T G C T C C C T C C G G C A C C C A C T G G G T 600
GRVER5.SEQ	G C A A G T G G C C G C T A T T T T T G T G C T C C C T C C G G C A C C C A C T G G G T 600
GRVER4.SEQ	G C A A G T G G C C G C T A T T T T T G T G C T C C C T C C G G C A C C C A C T G G G T 600
GRVER3.SEQ	G C A G G T C G C C G C C A T T T T T G T G C T C C T C T G G C A C C C A C T G G G T 600
GRVER2.SEQ	G C A A G T C G C C G C T A T T T T T G T G C T C C T C T G G C A C C C A C C C G G G T 600
GRVER1.SEQ	G C A A G T C G C C G C T A T T T T T G T G C T C C T C T G G C A C T A C C C G G G T 600
YG81-6G1.SEQ	G C A A G T G G C A G C T A T C T T A T G T T C G T C A G G C A C T A C T G G G A 600
RDVER1.SEQ	A C A G G T G G C T G C C A T C C T G T G T A G C T C T G G T A C C C A C T G G G C 600
RDVER2.SEQ	A C A G G T G G C T G C C A T C C T G T G T A G C T C T G G T A C T A C T G G G C 600
RDVER3.SEQ	A C A A G T G G C T G C T A T C C T G T G T A G C A G C G G G T A C T A C T G G G C 600
RDVER4.SEQ	A C A A G T T G C T G C A A T C C T G T G T A G C A G C G G G T A C T A C T G G G A 600
RDVER5.SEQ	A C A A G T T G C A G G C C A T T T C T G T G T A G C A G C G G G T A C T A C T G G G A 600
RD7.SEQ	A C A A G T T G C A G G C C A T T T C T G T G T A G C A G C G G G T A C T A C T G G G A 600
RDVER51.SEQ	A C A A G T T G C A G G C C A T T T C T G T G T A G C A G C G G G T A C T A C T G G G A 600
RDVER52.SEQ	A C A A G T T G C A G G C C A T T T C T G T G T A G C A G C G G G T A C T A C T G G G A 600
RD1561H9.SEQ	A C A A G T T G C A G G C C A T T T C T G T G T A G C A G C G G G T A C T A C T G G G A 600

## **FIG. 2 (cont'd)**

GRVER51.SEQ	T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GR6.SEQ	T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER5.SEQ	T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER4.SEQ	T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER3.SEQ	T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640
GRVER2.SEQ	C T G C C T A A A G G C G T G A T G C A G A C T C A C C A A A T A T C T G T G 640
GRVER1.SEQ	C T G C C T A A A G G C G T G A T G C A G A C T C A C C A A A T A T C T G T G 640
YG81-6G1.SEQ	T T A C C G A A A A G G T G T A A T G C A A A C T C A C C A A A A T A T T T G T G 640
RDVER1.SEQ	T T G C C A A A G G G T G T C A T G C A A A C C C A T C A G A A C A T T T G C G 640
RDVER2.SEQ	T T G C C A A A G G G T G T C A T G C A A A C C C A T C A G A A C A T T T G C G 640
RDVER3.SEQ	C T C C C A A A G G G C G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER4.SEQ	C T C C C A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER5.SEQ	C T C C C A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RD7.SEQ	C T C C C A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER51.SEQ	C T C C C A A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RDVER52.SEQ	C T C C C A A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
RD1561H9.SEQ	C T C C C A A A G G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640
GRVER51.SEQ	T G C G T T T T G A T C C A C G C T C T C G A C C C T C G T G T G G G T A C T C A 680
GR6.SEQ	T G C G T T T T G A T C C A C G C T C T C G A C C C T C G T G T G G G T A C T C A 680
GRVER5.SEQ	T G C G T T T T G A T C C A C G C T C T C G A C C C T C G T G T G G G T A C T C A 680
GRVER4.SEQ	T G C G T T T T G A T C C A C G C T C T C G A C C C T C G T G T G G G T A C T C A 680
GRVER3.SEQ	T G C G C T T G A T C C A C G C C C T C G A C C C T C G T G T G G G T A C T C A 680
GRVER2.SEQ	T C C G C T T G A T T C A T G C C C T G G A C C C A C G T G T G G G T A C T C A 680
GRVER1.SEQ	T C C G C T T G A T T C A T G C C C T G G G A C C C A C G T G T G G G T A C C C A 680
YG81-6G1.SEQ	T C C G A C T T A T A C A T G C T T T A G A C C C C A G G G C A G G A A C G C A 680
RDVER1.SEQ	T G C G T C T G A T C C A C G C T C T C G A T C C T C G C T A C G G G C A C C C A 680
RDVER2.SEQ	T G C G T C T G A T C C A C G C G C T C T C G A T C C T C G C T A C G G G C A C C C A 680
RDVER3.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RDVER4.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RDVER5.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RD7.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RDVER51.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RDVER52.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
RD1561H9.SEQ	T G C G T C T G A T C C A T G C T C T C G A T C C C A C G G C T A C G G G C A C T C A 680
GRVER51.SEQ	A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GR6.SEQ	A T T G A T C T C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GRVER5.SEQ	A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GRVER4.SEQ	A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GRVER3.SEQ	A T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GRVER2.SEQ	G T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
GRVER1.SEQ	G T T G A T C C C T G G C G T G A C T G T G C T G G T G T A T C T G C C T T T C 720
YG81-6G1.SEQ	A C T T A T T C C T G G T G T G A C A G T C T T A G T A T A T C T G C C T T T C 720
RDVER1.SEQ	A C T G A T T C C A G G T G T C A C C C G T G T G G T C T A T C T G C C T T T C 720
RDVER2.SEQ	A C T G A T T C C T G G T G T C A C C C G T G T G G T C T A T C T G C C T T T C 720
RDVER3.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C C T G C C T T T C 720
RDVER4.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720
RDVER5.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720
RD7.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720
RDVER51.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720
RDVER52.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720
RD1561H9.SEQ	G C T G A T T C C T G G T G T C A C C C G T C T T G G T C T A C T T G C C T T T C 720

FIG. 2 (cont'd)

GRVER51.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	C	T	A	T	T	T	C	A	760					
GR6.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	C	T	G	G	G	T	T	C	A	760				
GRVER5.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	C	T	G	G	G	T	T	T	C	A	760			
GRVER4.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	T	C	A	C	C	T	G	G	G	T	760			
GRVER3.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	T	C	A	C	C	T	G	G	G	T	760			
GRVER2.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	T	C	A	C	C	T	G	G	G	T	760			
GRVER1.SEQ	T	T	T	C	A	C	G	C	C	T	T	T	G	G	T	T	T	T	C	A	C	C	T	G	G	G	T	760			
YG81-6G1.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	C	T	A	A	C	T	T	G	G	A	760			
RDVER1.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER2.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER3.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER4.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER5.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RD7.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER51.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RDVER52.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
RD1561H9.SEQ	T	T	C	C	A	T	G	C	T	T	T	T	G	G	G	T	T	T	C	A	C	A	T	T	T	A	760				
GRVER51.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	C	A	800			
GR6.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	C	A	800			
GRVER5.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	C	A	800			
GRVER4.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	C	A	800			
GRVER3.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	C	A	800			
GRVER2.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	T	C	800			
GRVER1.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	G	G	C	T	T	C	G	A	T	C	800			
YG81-6G1.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	A	G	C	A	T	T	G	A	T	C	800			
RDVER1.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	C	A	800		
RDVER2.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	C	A	800		
RDVER3.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RDVER4.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RDVER5.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RD7.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RDVER51.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RDVER52.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
RD1561H9.SEQ	T	G	G	T	C	G	G	C	T	T	G	C	G	T	G	T	C	C	G	C	G	T	T	T	G	A	T	C	800		
GRVER51.SEQ	A	G	A	A	G	C	C	T	T	C	T	T	G	A	G	G	C	T	A	T	T	C	A	G	G	T	G	C	T	840	
GR6.SEQ	A	G	A	A	G	C	C	T	T	C	T	T	G	A	G	G	C	T	A	T	T	C	A	G	G	T	G	C	T	840	
GRVER5.SEQ	A	G	A	A	G	C	C	T	T	C	T	T	G	A	G	G	C	T	A	G	A	T	C	A	G	G	T	G	C	840	
GRVER4.SEQ	A	G	A	A	G	C	C	T	T	C	T	T	G	A	G	G	C	T	A	T	T	C	A	G	G	T	G	C	T	840	
GRVER3.SEQ	A	G	A	A	G	C	C	T	T	C	T	T	G	A	G	G	C	T	A	T	T	C	A	G	G	T	G	C	T	840	
GRVER2.SEQ	A	G	A	A	G	C	C	T	T	T	T	T	G	A	G	G	C	C	A	T	T	C	A	G	G	T	G	C	T	840	
GRVER1.SEQ	A	G	A	A	G	C	C	T	T	T	T	T	G	A	G	G	C	C	A	T	T	C	A	G	G	T	G	C	T	840	
YG81-6G1.SEQ	A	G	A	A	G	C	C	T	T	T	T	T	G	A	A	A	G	C	T	A	T	T	C	A	G	G	T	G	C	840	
RDVER1.SEQ	G	G	A	G	G	C	C	T	T	C	T	T	G	A	A	A	G	C	T	A	G	A	T	T	G	A	G	T	G	C	840
RDVER2.SEQ	G	G	A	G	G	C	C	T	T	C	T	T	G	A	A	A	G	C	T	A	G	A	T	T	G	A	G	T	G	C	840
RDVER3.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RDVER4.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RDVER5.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RD7.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RDVER51.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RDVER52.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	
RD1561H9.SEQ	G	G	A	G	G	C	C	T	T	T	T	T	G	A	A	A	G	C	C	A	T	C	C	A	G	G	T	G	C	840	

**FIG. 2 (cont'd)**

GRVER51.SEQ	T C C G T G A T C A A C G T C C C T T C A G T C A T T T T G T T C C T G A G C A 880
GR6.SEQ	T C C G T G A T C A A C G T C C C T T C A G T C A T T T T G T T C C T G A G C A 880
GRVER5.SEQ	T C C G T G A T C A A C G T C C C T T C A G T C A T T T T G T T C C T G A G C A 880
GRVER4.SEQ	T C T G T C A T C A A T G T C C C T T C A G T C A T T T T G T T C C T G A G C A 880
GRVER3.SEQ	T C T G T G A T C A A T G T C C C A T C T G T C A T T T T G T T C C T G A G C A 880
GRVER2.SEQ	A G C G T G A T C A A C G T C C C T T C T G T G A T T T T G T T C C T G A G C A 880
GRVER1.SEQ	A G C G T G A T C A A C G T C C C T T C T G T G A T T T T G T T C C T G A G C A 880
YG81-6G1.SEQ	A G T G T A A T T A A C G T T C C A T C A G T A A T T G T T C T T A T C G A 880
RDVER1.SEQ	T C T G T C A T T A A T G T G C C A A G C G T C A T C C T G T T T T T G T C T A 880
RDVER2.SEQ	T C T G T C A T T A A T G T G C C A A G C G T C A T C C T G T T T T T G T C T A 880
RDVER3.SEQ	A G C G T C A T T A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RDVER4.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RDVER5.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RD7.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RDVER51.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RDVER52.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880
RD1561H9.SEQ	A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T T G T C T A 880

GRVER51.SEQ	A A T C T C C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T T G C G 920
GR6.SEQ	A A T C T C C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T T G C G 920
GRVER5.SEQ	A A T C T C C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T T G C G 920
GRVER4.SEQ	A A T C T C C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T T G C G 920
GRVER3.SEQ	A A T C T C C C T T T G G T T G A C A A G T A T G A T C T G A G C A G C T T T G C G 920
GRVER2.SEQ	A A T C T C C C A T T G G T C G A T A A G T A T G A C C T G A G C A G C T T T G C G 920
GRVER1.SEQ	A A T C T C C C A T T G G T C G A T A A G T A T G A C C T G A G C A G C T T T G C G 920
YG81-6G1.SEQ	A A A G T C C T T T G G T T G A C A A A T A C G A T T T A T C A A G T T T A A G 920
RDVER1.SEQ	A G A G C C C T C T G G T G G A C A A A T A C G A T T T G T C T A G C C T G C G 920
RDVER2.SEQ	A G A G C C C T C T G G T G G A C A A A T A C G A T T T G T C T T T C T G C G 920
RDVER3.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C C C T G C G 920
RDVER4.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920
RDVER5.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920
RD7.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920
RDVER51.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920
RDVER52.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920
RD1561H9.SEQ	A G A G C C C A C T C G T G G A C A A A G T A C G A C T T T G T C T T T C A C T G C G 920

GRVER51.SEQ	T G A G C T G T G C T G T G G C G C T G C T C C T T T G G C C A A A G A A G T G 960
GR6.SEQ	T G A G C T G T G C T G T G G C G C T G C T C C T T T G G C C A A A G A A G T G 960
GRVER5.SEQ	T G A G C T G T G C T G T G G C G C T G C T C C T T T G G C C A A A G A A G T G 960
GRVER4.SEQ	T G A G C T G T G C T G T G G C G C T G C T C C T T T G G C C A A A G A A G T G 960
GRVER3.SEQ	T G A A A C T G T G C T G T G G C G C T G C T C C T T T G G C C A A A G A A G T G 960
GRVER2.SEQ	C G A A A C T G T G C T G T G G C G C T G C C C C T T T G G C T A A A G A G G T G 960
GRVER1.SEQ	C G A A A C T G T G C T G T G G C G C T G C C C C T T T G G C T A A A G A G G T G 960
YG81-6G1.SEQ	G G A A T T G T G T T G C G G G T G C G G C A C C A T T A G C A A A A G A A G T T 960
RDVER1.SEQ	T G A G G T T G T G T T G C G G G T G C C G C T C C A C T G G C C A A A G G A A G T C 960
RDVER2.SEQ	T G A G G T T G T G T T G C G G G T G C C G C T C C A C T G G C C A A A G G A A G T C 960
RDVER3.SEQ	T G A G G T T G T G T T G C G G G T G C C G C C C A C T G G C T A A A G G A G G T C 960
RDVER4.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960
RDVER5.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960
RD7.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960
RDVER51.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960
RDVER52.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960
RD1561H9.SEQ	T G A A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A A G G A G G T C 960

FIG. 2 (cont'd)

GRVER51.SEQ	G C	C G A G G T	C G C T	T G C T	A A G C G	T C T	G A A C C	C T C C	C T G G	T A T C	C C 1000
GR6.SEQ	G C	C G A G G T	C G C T	G C T	A A G C G	T C T	G A A C C	C T C C	C T G G	T A T C	C C 1000
GRVER5.SEQ	G C	C G A G G T	C G C T	G C T	A A G C G	T C T	G A A C C	C T C C	C T G G	T A T C	C C 1000
GRVER4.SEQ	G C	C G A G G T	C G C T	G C T	A A G C G	T C T	G A A C C	C T C C	C T G G	T A T C	C C 1000
GRVER3.SEQ	G C	C G A G G T	C G C T	G C T	A A G C G	T C T	G A A C C	C T C C	C T G G	T A T C	C C 1000
GRVER2.SEQ	G C	C G A A [A] G T	C G C T	G C C A A A G C G	T C T	G A A T T	T T G C C A G G	T A T C	C C 1000		
GRVER1.SEQ	G C	C G A A [A] G T	C G C T	G C C A A A G C G	T C T	G A A T T	T T G C C A G G	T A T C	C C 1000		
YG81-6G1.SEQ	G C T G A G G T	T G C A G C A A A A C G A T T A A A C T	T G C C A G G A A T T C	1000							
RDVER1.SEQ	G C T G A G G T	G G C C G C T	A A A C G C T T	T G A A C C T G C C T G G C A T T C	1000						
RDVER2.SEQ	G C T G A G G T	G G C C G C T	A A A C G C T T	T G A A C C T G C C T G G C A T T C	1000						
RDVER3.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T G C C A G G C A T T C	1000							
RDVER4.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T G C C C G G C A T T C	1000							
RDVER5.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T T T C C A G G G A T T C	1000							
RD7.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T T T C C A G G G G A T T C	1000							
RDVER51.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T T T C C A G G G G A T T C	1000							
RDVER52.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T T T C C A G G G G A T T C	1000							
RD1561H9.SEQ	G C T G A A [A] G T	G G C C G C C A A A C G C T T	T G A A T C T T T C C A G G G G A T T C	1000							

GRVER51.SEQ	G	C	T	G	C	G	G	T	T	T	T	G	G	T	T	T	G	A	C	T	G	A	G	A	G	C	A	C	T	T	G	C	T	A	A	C	A	T	1040		
GR6.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	G	A	C	T	G	A	G	A	G	C	A	C	T	T	T	G	C	T	A	A	C	A	T	1040			
GRVER5.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	G	A	C	T	G	A	G	A	G	C	A	C	T	T	T	G	C	T	A	A	C	A	T	1040			
GRVER4.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	G	A	C	T	G	A	G	A	G	C	A	C	T	T	T	G	C	T	A	A	C	A	T	1040			
GRVER3.SEQ	G	C	T	G	C	G	G	T	T	T	G	G	T	T	G	A	C	T	G	A	G	A	G	C	A	C	T	T	T	G	C	C	A	A	C	A	T	1040			
GRVER2.SEQ	G	C	T	G	C	G	G	C	T	T	T	G	G	T	C	T	G	A	C	T	G	A	G	A	G	C	A	C	C	T	C	T	G	C	T	A	A	C	A	T	1040
GRVER1.SEQ	G	C	T	G	C	G	G	C	T	T	T	G	G	T	C	T	G	A	C	T	G	A	G	A	G	C	A	C	C	T	C	T	G	C	T	A	A	C	A	T	1040
YG81-6G1.SEQ	G	C	T	G	T	G	G	A	T	T	T	G	G	T	T	T	G	A	C	A	G	A	T	C	T	A	C	T	T	C	A	G	G	C	T	A	A	T	A	T	1040
RDVER1.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	G	A	C	C	G	A	T	C	T	A	C	T	A	G	C	G	C	C	A	T	T	A	T	1040	
RDVER2.SEQ	G	T	T	G	T	G	G	T	T	T	C	G	G	C	T	T	G	A	C	C	G	A	T	C	T	A	C	T	A	G	C	G	C	C	A	T	T	A	T	1040	
RDVER3.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RDVER4.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RDVER5.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RD7.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RDVER51.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RDVER52.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	C	G	C	T	A	T	T	A	T	1040	
RD1561H9.SEQ	G	T	T	G	T	G	G	C	T	T	C	G	G	C	C	T	C	A	C	C	G	A	T	C	T	A	C	C	A	G	T	G	C	A	T	T	A	T	1040		

GRVER51.SEQ	C	C	A	T	A	G	C	T	T	G	G	G	A	G	C	G	A	G	T	T	T	A	A	G	T	T	C	T	T	G	G	G	T	1080									
GR6.SEQ	C	C	A	T	A	G	C	T	T	G	G	G	A	G	C	G	A	G	T	T	T	A	A	G	T	T	C	T	T	G	G	G	T	1080									
GRVER5.SEQ	C	C	A	T	A	G	C	T	T	G	G	G	A	G	C	G	A	G	T	T	T	A	A	G	T	T	C	T	T	G	G	G	T	1080									
GRVER4.SEQ	C	C	A	T	A	G	C	T	T	G	G	G	A	G	C	G	A	G	T	T	T	A	A	G	T	T	C	T	T	G	G	G	T	1080									
GRVER3.SEQ	C	C	A	T	A	G	C	T	T	G	G	G	T	G	A	C	G	A	G	T	T	T	A	A	A	T	C	T	T	G	G	G	T	1080									
GRVER2.SEQ	T	C	A	T	A	G	C	T	T	G	G	G	T	G	A	T	G	A	G	T	T	T	C	A	A	A	T	C	T	G	G	G	T	1080									
GRVER1.SEQ	T	C	A	T	A	G	C	T	T	G	G	G	T	G	A	T	G	A	T	T	C	A	A	A	T	C	T	G	G	C	T	G	G	T	1080								
YG81-6G1.SEQ	A	C	A	C	A	G	T	C	T	T	A	G	G	G	A	T	G	A	T	T	T	A	A	A	T	C	A	G	G	A	T	C	A	T	T	G	G	A	1080				
RDVER1.SEQ	C	C	A	T	C	T	C	T	G	G	G	C	G	A	C	G	A	G	T	T	T	A	A	G	A	G	C	G	G	T	T	C	T	T	T	G	G	G	C	1080			
RDVER2.SEQ	C	C	A	T	C	T	C	T	G	G	G	C	G	A	C	G	A	A	T	T	T	A	A	G	A	G	C	G	G	T	T	C	T	T	T	G	G	G	C	1080			
RDVER3.SEQ	T	C	A	A	T	C	T	C	T	C	C	G	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	G	G	G	C	1080	
RDVER4.SEQ	T	C	A	G	T	C	T	C	T	C	C	G	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	G	G	G	C	1080	
RDVER5.SEQ	T	C	A	G	T	C	T	C	T	C	C	G	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	T	G	G	G	C	1080
RD7.SEQ	T	C	A	G	T	C	T	C	T	C	C	G	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	T	G	G	G	C	1080
RDVER51.SEQ	T	C	A	G	T	C	T	C	T	C	C	G	G	C	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	T	G	G	G	C	1080
RDVER52.SEQ	T	C	A	G	T	C	T	C	T	C	C	G	G	G	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	T	G	G	G	C	1080
RD1561H9.SEQ	C	A	G	A	T	C	T	C	T	C	G	G	G	G	A	T	G	A	G	T	T	T	A	A	G	A	G	C	G	G	C	T	C	T	T	T	T	G	G	G	C	1080	

**FIG. 2 (cont'd)**

GRVER51.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	A	T	G	G	C	T	G	C	C	G	A	C	C	G	T	G	1120				
GR6.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	A	T	G	G	C	T	G	C	C	G	A	C	C	G	T	G	1120				
GRVER5.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	A	T	G	G	C	T	G	C	C	G	A	C	C	G	T	G	1120				
GRVER4.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	A	T	G	G	C	T	G	C	C	G	A	C	C	G	T	G	1120				
GRVER3.SEQ	C	G	C	G	T	G	A	C	C	C	T	T	T	G	A	T	G	G	C	T	G	C	C	G	A	C	C	G	T	G	1120			
GRVER2.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	T	G	A	T	G	G	C	C	G	C	C	G	A	C	C	G	T	G	1120		
GRVER1.SEQ	C	G	C	G	T	G	A	C	T	C	C	T	T	T	G	A	T	G	G	C	C	G	C	C	G	A	C	C	G	T	G	1120		
YG81-6G1.SEQ	A	G	A	G	T	T	A	C	T	C	C	T	T	T	A	A	T	G	G	C	A	G	C	T	A	G	G	G	G	1120				
RDVER1.SEQ	C	G	T	G	T	C	A	C	C	C	A	C	T	G	A	T	G	G	C	T	G	C	C	A	A	A	T	T	G	C	G	1120		
RDVER2.SEQ	C	G	T	G	T	C	A	C	C	C	A	C	T	G	A	T	G	G	C	T	G	C	C	A	A	A	T	T	G	C	G	1120		
RDVER3.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	A	T	C	G	C	G	1120	
RDVER4.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120
RDVER5.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120
RD7.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120
RDVER51.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120
RDVER52.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120
RD1561H9.SEQ	C	G	T	G	T	C	A	C	T	C	C	A	C	T	C	A	T	G	G	C	T	G	C	T	A	A	G	A	T	C	G	C	G	1120

GRVER51.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	A	T	T	G	G	G	G	T	G	A	A	T	T																		
GR6.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	A	T	T	G	G	C	C	A	A	T	G	G	T	G	A	A	T	T													
GRVER5.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	A	T	T	G	G	C	C	A	A	T	C	A	G	T	G	G	T	G	A	A	T	T									
GRVER4.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	A	T	T	G	G	C	C	C	A	A	T	C	A	G	T	G	G	T	G	A	A	T	T								
GRVER3.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	C	T	T	G	G	C	C	C	A	A	T	C	A	G	T	G	G	T	G	A	A	T	T								
GRVER2.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	T	T	T	G	G	T	C	C	A	A	T	C	A	G	T	G	G	C	G	A	A	T	T								
GRVER1.SEQ	A	G	A	C	C	G	G	C	A	A	G	C	T	T	T	G	G	T	C	C	C	A	A	T	C	A	G	T	G	G	C	G	A	A	T	T							
YG81-6G1.SEQ	A	A	A	C	T	G	G	T	A	A	G	C	A	T	T	G	G	G	A	C	C	A	A	T	C	A	G	T	T	G	G	T	G	A	A	T	T						
RDVER1.SEQ	A	A	A	C	T	G	G	T	A	A	G	G	C	C	T	T	T	G	G	G	C	C	C	T	A	A	C	C	A	G	G	T	G	G	G	T	G	A	G	C	T		
RDVER2.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	T	A	A	C	C	A	G	G	T	G	G	G	T	G	A	G	C	T
RDVER3.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	T	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RDVER4.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	T	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RDVER5.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	T	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RD7.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	G	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RDVER51.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	G	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RDVER52.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	G	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	
RD1561H9.SEQ	A	A	A	A	C	T	G	G	T	A	A	G	G	C	C	C	T	T	T	G	G	G	C	C	C	G	A	A	C	C	A	G	T	G	G	G	C	G	A	G	C	T	

GRVER51.SEQ	G T G T A T T A A G G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C	1200
GR6.SEQ	G T G T A T T A A G G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C	1200
GRVER5.SEQ	G T G T A T T A A G G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C	1200
GRVER4.SEQ	G T G T A T T A A G G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C	1200
GRVER3.SEQ	G T G C A T T A A G G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C	1200
GRVER2.SEQ	G T G T A T T A A G G G T C C T A T G G T G T C T A A A G G C T A C G T C A A C	1200
GRVER1.SEQ	G T G T A T T A A G G G T C C T A T G G T G T C T A A A G G C T A C G T C A A C	1200
YG81-6G1.SEQ	A T G C A T T A A A G G T C C C A T G G T A T C G A A A G G T T A C G T G A A C	1200
RDVER1.SEQ	G T G C A T C A A A G G G C C C A A T G G T C A G G C A A G G G T T A T G T G A A T	1200
RDVER2.SEQ	G T G C A T C A A A G G G C C C A A T G G T C A G G C A A G G G T T A T G T G A A T	1200
RDVER3.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RDVER4.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RDVER5.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RD7.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RDVER51.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RDVER52.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200
RD1561H9.SEQ	G T G T A T C A A A G G G C C C T A T G G T G A G G C A A G G G T T A T G T C A A T	1200

**FIG. 2 (cont'd)**





GRVER51.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	C	C	G	G	C	A	T	G	C	T	A	G	G	1480				
GR6.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	C	C	G	G	C	A	G	T	C	G	T	A	G	G	1480			
GRVER5.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	C	C	G	G	C	A	G	T	C	G	T	A	G	G	1480			
GRVER4.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	C	T	G	G	C	A	G	T	C	G	T	A	G	G	1480			
GRVER3.SEQ	T	T	T	G	T	G	G	T	G	A	A	C	C	T	G	G	C	A	G	T	C	G	T	A	G	G	1480			
GRVER2.SEQ	T	T	T	G	T	C	G	T	G	A	A	C	C	A	G	G	C	A	G	A	T	T	A	C	G	T	A	A	1480	
GRVER1.SEQ	T	T	T	G	T	C	G	T	G	A	A	C	C	A	G	G	T	A	G	A	A	T	T	A	C	G	T	A	A	1480
YG81-6G1.SEQ	T	T	T	G	T	G	G	T	T	A	A	C	A	G	C	C	G	G	A	A	G	G	G	A	T	A	A	1480		
RDVER1.SEQ	T	T	C	G	T	G	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER2.SEQ	T	T	C	G	T	G	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER3.SEQ	T	T	C	G	T	C	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER4.SEQ	T	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER5.SEQ	T	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RD7.SEQ	T	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER51.SEQ	T	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RDVER52.SEQ	T	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480			
RD1561H9.SEQ	T	C	G	T	T	G	T	C	A	A	G	C	A	G	C	C	T	G	G	C	C	A	A	G	G	1480				

GRVER51.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GR6.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GRVER5.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GRVER4.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GRVER3.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GRVER2.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
GRVER1.SEQ	A	G	G	T	C	T	A	C	G	A	C	T	A	T	T	T	G	G	C	C	G	T	G	T	C	T	C	A	C	C	A	A	1520
YG81-6G1.SEQ	A	A	G	T	G	T	A	C	G	A	T	T	T	C	T	T	G	C	C	G	A	G	G	G	T	C	T	C	A	C	A	A	1520
RDVER1.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER2.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER3.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER4.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER5.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RD7.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER51.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RDVER52.SEQ	A	A	G	T	G	T	A	T	G	A	T	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		
RD1561H9.SEQ	A	A	G	T	T	G	A	T	T	G	A	C	C	T	G	G	C	T	G	A	C	G	C	C	A	T	C	C	A	A	1520		

GRVER51.SEQ	A	T	A	T	C	T	G	C	G	G	C	G	T	C	C	G	C	T	T	C	G	T	C	G	A	T	T	C	C	A	A	1560
GR6.SEQ	A	T	A	T	C	T	G	C	G	G	C	G	T	C	C	G	C	T	T	C	G	T	C	G	A	T	T	C	C	A	A	1560
GRVER5.SEQ	A	T	A	T	C	T	G	C	G	G	C	G	T	C	C	G	C	T	T	C	G	T	C	G	A	T	T	C	C	A	A	1560
GRVER4.SEQ	A	T	A	T	C	T	G	C	G	G	C	G	T	C	C	G	C	T	T	C	G	T	C	G	A	T	T	C	C	A	A	1560
GRVER3.SEQ	A	T	A	T	C	T	G	C	G	G	C	G	T	C	C	G	C	T	T	C	G	T	C	G	A	T	T	C	C	T	1560	
GRVER2.SEQ	G	T	A	C	C	T	G	C	G	G	T	G	C	G	T	C	C	G	C	T	G	A	T	G	C	A	T	C	C	T	1560	
GRVER1.SEQ	G	T	A	C	C	T	G	C	G	G	T	G	C	G	T	C	C	G	C	T	G	A	T	G	C	A	T	C	C	T	1560	
YG81-6G1.SEQ	G	T	A	T	T	T	G	C	G	G	G	G	T	C	G	A	T	T	C	G	T	G	A	T	G	C	A	T	C	A	A	1560
RDVER1.SEQ	A	T	A	T	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	A	1560
RDVER2.SEQ	A	T	A	T	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	A	1560
RDVER3.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	A	1560
RDVER4.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560
RDVER5.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560
RD7.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560
RDVER51.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560
RDVER52.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560
RD1561H9.SEQ	G	T	A	C	T	T	G	C	G	G	T	G	C	G	T	C	G	A	T	T	C	G	T	C	G	A	T	T	C	C	T	1560

**FIG. 2 (cont'd)**

GRVER51.SEQ	C G C A A C G T T A C C G G T A A G A T C A C T C G T A A A G A G T T G C T G A 1600
GR6.SEQ	C G C A A C G T T A C C G G T A A G A T C A C T C G T A A A G A G T T G C T G A 1600
GRVER5.SEQ	C G C A A C G T T A C C G G T A A G A T C A C T C G T A A A G A G T T G C T G A 1600
GRVER4.SEQ	C G C A A C G T G A C C G G T A A G A T C A C T C G T A A A G A A T T G C T G A 1600
GRVER3.SEQ	C G C A A C G T C A C C G G C A A A G A T C A C T C G T A A A G A G T T G C T G A 1600
GRVER2.SEQ	C G C A A T G T C A C C G G C A A A A T T A C T C G T A A G G A G T T G C T G A 1600
GRVER1.SEQ	C G C A A T G T C A C C G G C A A A A T T A C T C G T A A G G A G T T G C T G A 1600
YG81-6G1.SEQ	A G G A A T G T T A C A G G T A A A A T T A C A A G A A A A G G A A C T T C T G A 1600
RDVER1.SEQ	C G T A A C G T G A C T G G T A A G A T C A C C C G C A A A G A A C T G T T G A 1600
RDVER2.SEQ	C G T A A C G T G A C T G G T A A G A T C A C C C G C A A A G A A C T G T T G A 1600
RDVER3.SEQ	C G T A A T G T G A C T G G T A A A A T T A C C C G C A A G G A A C T G T T G A 1600
RDVER4.SEQ	C G C A A T G T G A C T G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600
RDVER5.SEQ	C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600
RD7.SEQ	C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600
RDVER51.SEQ	C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600
RDVER52.SEQ	C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600
RD1561H9.SEQ	C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600

GRVER51.SEQ	A G C A A C T C C T C G A A A A A G C T G G C G G C	1626
GR6.SEQ	A G C A A C T C C T C G A A A A A G C T G G C G G C	1626
GRVER5.SEQ	A G C A A C T C C T C G A A A A A G C T G G C G G C	1626
GRVER4.SEQ	A G C A A C T C C T C G A A A A A G C T G G C G G C	1626
GRVER3.SEQ	A A C A A T T G C T C G A A A A A G C T G G C G G C	1626
GRVER2.SEQ	A A C A G T T G C T G G A A A A G G C T G G T G G C	1626
GRVER1.SEQ	A A C A G T T G C T G G A A A A G G C T G G T G G C	1626
YG81-6G1.SEQ	A G C A G T T G C T G G A G A A G G C G G G A G G T	1626
RDVER1.SEQ	A G C A A C T G T T G G A G A A A G C C G G C G G T	1626
RDVER2.SEQ	A G C A A C T G T T G G A G A A A G C C G G C G G T	1626
RDVER3.SEQ	A G C A A T T G T T G G A G A A G G C C G G C G G T	1626
RDVER4.SEQ	A A C A A T T G T T G G A G A A G G C C G G C G G T	1626
RDVER5.SEQ	A A C A A T T G T T G G A G A A G G C C G G C G G T	1626
RD7.SEQ	A A C A A T T G T T G G A G A A G G C C G G C G G T	1626
RDVER51.SEQ	A A C A A T T G T T G G A G A A G G C C G G C G G T	1626
RDVER52.SEQ	A A C A A T T G T T G G A G A A G G C C G G C G G T	1626
RD1561H9.SEQ	A A C A A T T G T T G G T G A A G G C C G G C G G T	1626

**FIG. 2 (cont'd)**

**FIG. 3**

**FIG. 3 (cont'd)**

### **FIG. 3 (cont'd)**

**FIG. 3 (cont'd)**

GRVER51.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GR6.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GRVER5.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GRVER4.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GRVER3.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GRVER2.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
GRVER1.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
YG81-6G1.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER1.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER2.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER3.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER4.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER5.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RD7.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER51.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RDVER52.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RD1561H9.SEQ	F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
RD1561H9.SEQ	F V V K Q P G [T] E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P	1558
 GRVER51.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GR6.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GRVER5.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GRVER4.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GRVER3.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GRVER2.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
GRVER1.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
YG81-6G1.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER1.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER2.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER3.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER4.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER5.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RD7.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER51.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RDVER52.SEQ	R N V T G K I T R K E L L K Q L L E K A G G	1624
RD1561H9.SEQ	R N V T G K I T R K E L L K Q L L [V] K A G G	1624

**FIG. 3 (cont'd)**

RELLUC.SEQ AT G A C T T C G A A A G T T T A T G A T C C A G A A C A A A G G A A A C G G G A 40  
 RLUCVER1.SEQ AT G C T T C C A A G G T G T A C G A C C C C G A G G C A G G C G C A A G C G C A 40  
 RLUCVER2.SEQ AT G G C T T C C A A G G T G T A C G A C C C C G A G G C A A C G C G C A A A C G C A 40  
 RLUCFINL.SEQ AT G G C T T C C A A G G T G T A C G A C C C C G A G G C A A C G C G C A A A C G C A 40  
  
 RELLUC.SEQ T G A T A A C T G G T C C G C A G T G G T G G G C C A G A T G T A A A C A A A T 80  
 RLUCVER1.SEQ T G A T C A C C G G C C C T C A G T G G T G G G C C C G C T G C A A G C A G A T 80  
 RLUCVER2.SEQ T G A T C A C T G G G C C C T C A G T G G T G G G C T C G C T G C A A G C A A A T 80  
 RLUCFINL.SEQ T G A T C A C T G G G C C C T C A G T G G T G G G C T C G C T G C A A G C A A A T 80  
  
 RELLUC.SEQ G A A T G T T C T T G A T T C A T T T A T T A A T T A T G A T T C A G A A 120  
 RLUCVER1.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A C G A C A G C G G A G 120  
 RLUCVER2.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A T G A T T C C G A G 120  
 RLUCFINL.SEQ G A A C G T G C T G G A C T C C T T C A T C A A C T A C T A T G A T T C C G A G 120  
  
 RELLUC.SEQ A A A C A T G C A G A A A A T G C T G T T A T T T T T T A C A T G G T A A C G 160  
 RLUCVER1.SEQ A A G C A C G C C G A G A A C G C C G T G A T C T T C C T G C A C G G C A A C G 160  
 RLUCVER2.SEQ A A G C A C G C C G A G A A C G C C G T G A T T T T T C T G C A T G G T A A C G 160  
 RLUCFINL.SEQ A A G C A C G C C G A G A A C G C C G T G A T T T T T C T G C A T G G T A A C G 160  
  
 RELLUC.SEQ C G G C C T C T T C T T A T T T A T G G C G A C A T G T T G T G C C A C A T A T 200  
 RLUCVER1.SEQ C G G C C T C C A G C T A C C T G T G G A G G G C A C G T G G T G C C T C A C A T 200  
 RLUCVER2.SEQ C T G G C C T C C A G C T A C C T G T G G A G G G C A C G T C G T G C C T C A C A T 200  
 RLUCFINL.SEQ C T G G C C T C C A G C T A C C T G T G G A G G G C A C G T C G T G C C T C A C A T 200  
  
 RELLUC.SEQ T G A G C C A G T A G C G G G T G T A T T A T A C C A G A T C T T A T T G G T 240  
 RLUCVER1.SEQ C G A G C C C G T G G C C C G C T G C A T C A T C C C T G A C C T G A T C G G G C 240  
 RLUCVER2.SEQ C G A G C C C G T G G C C C G C T G C A T C A T C C C T G A T C T G A T C G G G A 240  
 RLUCFINL.SEQ C G A G C C C G T G G C T A G A T G C A T C A T C C C T G A T C T G A T C G G G A 240  
  
 RELLUC.SEQ A T G G G C A A A T C A G G C A A A T C T G G T A A T G G T T C T T A T A G G T 280  
 RLUCVER1.SEQ A T G G G C A A G T C C G G C A A G G A G C G G C A A C G G C T C C T A C C G C C 280  
 RLUCVER2.SEQ A T G G G T A A G T C C G G C A A G G A G C G G G A A T G G C T C C A T A T C G G C C 280  
 RLUCFINL.SEQ A T G G G T A A G T C C G G C A A G G A G C G G G A A T G G C T C C A T A T C G G C C 280  
  
 RELLUC.SEQ T A C T T G A T C A T T A C A A A T A T C T T A C T G C A T G G T T T G A A C T 320  
 RLUCVER1.SEQ T G C T G G A C C A C T A C A A G T A C C T G A C C C G C T T G G T T T C G A G G C T 320  
 RLUCVER2.SEQ T C C T G G A T C A C T A C A A G T A C C T C A C C C G C T T G G T T T C G A G G C T 320  
 RLUCFINL.SEQ T C C T G G A T C A C T A C A A G T A C C T C A C C C G C T T G G T T T C G A G G C T 320  
  
 RELLUC.SEQ T C T T A A T T A C C A A A G A A G A T C A T T T T G T C G G C C A T G A T 360  
 RLUCVER1.SEQ G C T G A A C C T G C C C C A A G A A G A T C A T C T T C G T G G G C C A C G A C 360  
 RLUCVER2.SEQ G C T G A A C C T T C C C A A A G A A A A T C A T C T T T G T G G G C C A C G A C 360  
 RLUCFINL.SEQ G C T G A A C C T T C C C A A A G A A A A T C A T C T T T G T G G G C C A C G A C 360  
  
 RELLUC.SEQ T G G G G T G C T T G T T T G G C A T T T C A T T A T A G C T A T G A G C A T C 400  
 RLUCVER1.SEQ T G G G G A G C C T G C C T G G C C T T C C A C T A C T C C T A C G A G G C A C C 400  
 RLUCVER2.SEQ T G G G G G G C T T G T C T G G C C T T T C A C T A C T C C T A C G A G G C A C C 400  
 RLUCFINL.SEQ T G G G G G G C T T G T C T G G C C T T T C A C T A C T C C T A C G A G G C A C C 400  
  
 RELLUC.SEQ A A G A T A A G A T C A A A G C A A T A G T T C A C G C T G A A A G T G T A G T 440  
 RLUCVER1.SEQ A G G A C A A G A T C A A A G G C C A T C G T G C A C G C C G A G G C G T G G T 440  
 RLUCVER2.SEQ A A G A C A A G A T C A A A G G C C A T C G T C C A T G C T G A G G A G T G T C G T 440  
 RLUCFINL.SEQ A A G A C A A G A T C A A A G G C C A T C G T C C A T G C T G A G G A G T G T C G T 440

**FIG. 7**

RELLUC.SEQ A G A T G T G A T T G A A T C A T G G G A T G A A T G G C C T G A T A T T G A A A 480  
 RLUCKER1.SEQ G G A C G T G A T C G A G T C C T G G G A C G A G T G G C C T G A C A T C G A G G 480  
 RLUCKER2.SEQ G G A C G T G A T C G A G T C C T G G G A C G A G T G G C C T G A C A T C G A G G 480  
 RLUCEINL.SEQ G G A C G T G A T C G A G T C C T G G G A C G A G T G G C C T G A C A T C G A G G 480

RELLUC.SEQ G A A G A T A T T G C G T T G A T C A A A T C T G A A G A A G G A G A A A A A A A 520  
 RLUCKER1.SEQ G G A C A T C G C C C T G A T C A A G A G C G A G G G G C G A G A A G A G A 520  
 RLUCKER2.SEQ G G A T A T C G C C C T G A T C A A G A G C G A A G A G G G G C G A G A A A A 520  
 RLUCEINL.SEQ G G A T A T C G C C C T G A T C A A G A G C G A A G A G G G G C G A G A A A A 520

RELLUC.SEQ T G G T T T T G G A G A A T A A C T T C T T C G T G G A A A C C A T G T T G C C 560  
 RLUCKER1.SEQ T G G T G C T G G A G A A C A A C T T C T T C G T G G A G A C C A T G C T T G C C 560  
 RLUCKER2.SEQ T G G T G C T T G A G A A T A A C T T C T T C G T C G A G A C C A T G C T C C C 560  
 RLUCEINL.SEQ T G G T G C T T G A G A A t A A C T T C T T C G T C G A G A C C A T G C T C C C 560

RELLUC.SEQ A T C A A A A A T C A T G A G A A A G T T A G A A C C A G A A G A A T T T G C A 600  
 RLUCKER1.SEQ C A G C A A G A T C A T G C G C A A G C T T G G A G G C C T G A G G A G T T C G C C 600  
 RLUCKER2.SEQ A A G C A A G A T C A T G C G C A A A A C T T G G A G G C C T G A G G A G T T C G C T 600  
 RLUCEINL.SEQ A A G C A A G A T C A T G C G C A A A A C T T G G A G G C C T G A G G A G T T C G C T 600

RELLUC.SEQ G C A T A T C T T G A A C C A T T C A A A G A G A A A G G T G A A G T T C G T C 640  
 RLUCKER1.SEQ G C C T A C C T T G G A G G C C C T T C A A G G A G A A G G G C G A G G T G C G C C 640  
 RLUCKER2.SEQ G C C T A C C T T G G A G G C C C T T C A A G G A G A A G G G C G A G G G T T A G A C 640  
 RLUCEINL.SEQ G C C T A C C T T G G A G G C C A T T C A A G G A G A A G G G C G A G G G T T A G A C 640

RELLUC.SEQ G T C C A A C A T T A T C A T G G C C T C G T G A A A T C C C G T T A G T A A A 680  
 RLUCKER1.SEQ G C C C T A C C C T G T C C T G G C C C C T C G G C G A G A T C C C C T C T G G T G A A 680  
 RLUCKER2.SEQ G G C C T A C C C T C T C C T G G C C T C G G C G A G A T C C C C T C T C G T T A A 680  
 RLUCEINL.SEQ G G C C T A C C C T C T C C T G G C C T C G G C G A G A T C C C C T C T C G T T A A 680

RELLUC.SEQ A G G T G G T A A A C C T G A C G T T G T A C A A A T T G T T A G G A A T T A T 720  
 RLUCKER1.SEQ G G G C G G C A A G C C C G A C G T G G T G C A G A T C G T G C G C A A C T A C 720  
 RLUCKER2.SEQ G G G A G G C A A G C C C G A C G T C G T C C A G A T T G T C C G C A A C T A C 720  
 RLUCEINL.SEQ G G G A G G C A A G C C C G A C G T C G T C C A G A T T G T C C G C A A C T A C 720

RELLUC.SEQ A A T G C T T A T C T A C G T G C A A G T G A T G A T T T A C C A A A A A T G T 760  
 RLUCKER1.SEQ A A C G C C T A C C T G C G C G C C A G C G A C C T G C C T A A G A T G T 760  
 RLUCKER2.SEQ A A C G C C T A C C T T C G G G G C C A G C G A C G A T C T G C C T A A G A T G T 760  
 RLUCEINL.SEQ A A C G C C T A C C T T C G G G G C C A G C G A C G A T C T G C C T A A G A T G T 760

RELLUC.SEQ T T A T T G A A T C G G A T C C A G G A T T C T T T T C C A A T G C T A T T G T 800  
 RLUCKER1.SEQ T C A T C G A G T C C C G A C C C T G G C T T C T T C T C C A A C G G C C A T C G T 800  
 RLUCKER2.SEQ T C A T C G A G T C C C G A C C C T G G G T T C T T C T T T C C A A C G G C T A T T G T 800  
 RLUCEINL.SEQ T C A T C G A G T C C C G A C C C T G G G T T C T T C T T T C C A A C G G C T A T T G T 800

RELLUC.SEQ T G A A G G C G C C A A G A A G T T T C C T A A T A C T G A A T T T G T C A A A 840  
 RLUCKER1.SEQ C G A G G G A G C C A A G A A G T T C C C C C A A C C A C C G A G T T C G T G A A G G 840  
 RLUCKER2.SEQ C G A G G G A G C T A A G A A G T T C C C T A A C C A C C C G A G T T C G T G A A G G 840  
 RLUCEINL.SEQ C G A G G G A G C T A A G A A G T T C C C T A A C C C G A G T T C G T G A A G G 840

RELLUC.SEQ G T A A A A G G T C T T C A T T T T C G C A A G A A G A T G C A C C T G A T G 880  
 RLUCKER1.SEQ G T G A A G G G C C T G C A C T T C T C C C A G G A G G G A C G G C C C C C T G A C G 880  
 RLUCKER2.SEQ G T G A A G G G C C T C C C A C T T C A G C C C A G G A G G G A C G G C T C C C A G A T G 880  
 RLUCEINL.SEQ G T G A A G G G C C T C C C A C T T C A G C C C A G G A G G G A C G G C T C C C A G A T G 880

**FIG. 7 (cont'd)**

RELLUC.SEQ	A A A T G G G A A A A T A T A T C A A A T C G T T C G T T G A G C G A G T T C T	920
RLUCVER1.SEQ	A G A T G G G C A A G T A C A T C A A G A G C T T C G T G G A G C G C G T G C T	920
RLUCVER2.SEQ	A A T G G G T A A G T A C A T C A A G A G C T T C G T G G A G C G C G T G C T	920
RLUCFINL.SEQ	A A T G G G T A A G T A C A T C A A G A G C T T C G T G G A G C G C G T G C T	920
RELLUC.SEQ	C A A A A A T G A A C A A	933
RLUCVER1.SEQ	G A A G A A C G A G C A G	933
RLUCVER2.SEQ	G A A G A A C G A G C A G	933
RLUCFINL.SEQ	G A A G A A C G A G C A G	933

**FIG. 7 (cont'd)**

RELLUC.SEQ	M T S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCVER1.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCVER2.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RLUCFINL.SEQ	M A S K V Y D P E Q R K R M I T G P Q W W A R C K Q M N V L D S F I N Y Y D S E	118
RELLUC.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCVER1.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCVER2.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RLUCFINL.SEQ	K H A E N A V I F L H G N A A S S Y L W R H V V P H I E P V A R C I I P D L I G	238
RELLUC.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCVER1.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCVER2.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RLUCFINL.SEQ	M G K S G K S G N G S Y R L L D H Y K Y L T A W F E L L N L P K K I I F V G H D	358
RELLUC.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCVER1.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCVER2.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
RLUCFINL.SEQ	W G A C L A F H Y S Y E H Q D K I K A I V H A E S V V D V I E S W D E W P D I E	478
<b>RELLUC.SEQ</b>	<b>E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A</b>	<b>598</b>
<b>RLUCVER1.SEQ</b>	<b>E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A</b>	<b>598</b>
<b>RLUCVER2.SEQ</b>	<b>E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A</b>	<b>598</b>
<b>RLUCFINL.SEQ</b>	<b>E D I A L I K S E E G E K M V L E N N F F V E T M L P S K I M R K L E P E E F A</b>	<b>598</b>
RELLUC.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCVER1.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCVER2.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RLUCFINL.SEQ	A Y L E P F K E K G E V R R P T L S W P R E I P L V K G G K P D V V Q I V R N Y	718
RELLUC.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCVER1.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCVER2.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RLUCFINL.SEQ	N A Y L R A S D D L P K M F I E S D P G F F S N A I V E G A K K F P N T E F V K	838
RELLUC.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCVER1.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCVER2.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931
RLUCFINL.SEQ	V K G L H F S Q E D A P D E M G K Y I K S F V E R V L K N E Q	931

**FIG. 8**

GRVER51.SEQ A T G A T G A A [AC G C G A A A G A A C G T G A T C T A C G G C C C A G A A C 40  
 LUCPPLYG.SEQA T G A T G A A G A G A G A G A A A A A T G T T A T A T A T G G A C C C G A A C 40  
 RD1561H9.SEQA T G A T A A A G C G T G A G A A A A A T G T C A T C T A T G G C C C T G A G C 40

GRVER51.SEQ C A C T G C A T C C A C T T G G A A G A C C T C A C C G C T G G T G A G A T G C T 80  
 LUCPPLYG.SEQC C C T A C A C C C C T T G G A A G A C T T A A C A G C A G G A G A A A T G C T 80  
 RD1561H9.SEQC T C T C C A T C C T T T G G A G G A T T G A C T G C C G G C G A A A T G C T 80

GRVER51.SEQ C T T C C G A G C A C T G C G T T A A A C A T A G T C A C C T C C C T C A A G C A 120  
 LUCPPLYG.SEQC T T C A G G G C C C T T C G A A A A C A T T C T C A T T T A C C G C A G G C T 120  
 RD1561H9.SEQG T T C G T G C T C C G C A A G C A C T C T C A T T T G C C T C A A G C C 120

GRVER51.SEQ C T C G T G G A C G T C G T G G G A G A C G A G A G C C T C T C C T A C A A A G 160  
 LUCPPLYG.SEQT T A G T A G A T G T G T T T G G T G A C G A A T C G C T T T C C T A T A A A G 160  
 RD1561H9.SEQT T G G T C G A T G T G G T C G G C G A T G A A T C T T T G A G C T A C A A G G 160

GRVER51.SEQ A [A T T T T T C G A A G C T A C T G T G C T G T T G G C C C A A A G C C T C C A 200  
 LUCPPLYG.SEQA G T T T T T G A A G C T A C A G A T G C C T C C T A G C G C A A A G T C T C C A 200  
 RD1561H9.SEQA G T T T T T G A G G C A A C C G T C T G C T G G C T C A G T C C C T C C A 200

GRVER51.SEQ T A A T T G T G G G T A C A A A A T G A A A C G A T G T G G T G A G G C A T T T G T 240  
 LUCPPLYG.SEQ C A A T T G T G G A T A C A A G A T G A A T G A T G T A G T G T G C A T C T G C 240  
 RD1561H9.SEQ C A A T T G T G G C T A C A A G A T G A A C G A C G T C G T T A G T A T C T G T 240

GRVER51.SEQ G C T G A G A A T A A C A C T C G C T C T T T A T T C C T G T A A T C G C T G 280  
 LUCPPLYG.SEQ G C C G A G A A T A A A A A G A T T T T T A T T C C C A T T A T T G C A G 280  
 RD1561H9.SEQ G C T G A A A A C A T A C C C G T T C T T C A T T C C A G T C G C C G 280

GRVER51.SEQ C T T G G T A C A T C G G C A T G A T T G T C G C C C C T G T G A A T G A A A T C 320  
 LUCPPLYG.SEQ C T T G G T A T A T T G G T A T G A T T G T A G C A C C T G T T A A T G A A A G 320  
 RD1561H9.SEQ C A T G G T A T A T C G G T A T G A T C G T G G C T C C A G T C A A C G A G G 320

GRVER51.SEQ T T A C A T C C C A G A T G A G C T G T G T A A G G T T A T G G G T A T T A G C 360  
 LUCPPLYG.SEQ T T A C A T C C C A G A T G A A C T C T G T A A G G T C A T G G G T A T A T C G 360  
 RD1561H9.SEQ C T A C A T T C C C G A C G A A C T G T G T A A A G T C A T G G G T A T C T C T 360

GRVER51.SEQ A A A C C T C A A A T C G T C T T T A C T A C C A A A A C A T C T T G A A T A 400  
 LUCPPLYG.SEQ A A A C C A C A A A T A G T T T T T G T A C A A A G A A C A T T T A A A T A 400  
 RD1561H9.SEQ A A G G C C A C A G A T T G T C T T C A C C A C T A A G A A T A T T C T G A A C A 400

GRVER51.SEQ A G G T C T T G G A A G T C C A G T C T C G T A C T A A C T T C A T C A A A C G 440  
 LUCPPLYG.SEQA G G T A T T G G A G G T A C A G A G C A G A A C T A A T T T C A T A A A A A G 440  
 RD1561H9.SEQA A G T C C T G G A A G T C C A A A G C C G C A C C A A C T T T A A G C G 440

GRVER51.SEQ C A T C A T T A T T C T G G A T A C C G T C G A A A A C A T C C A C G G C T G T 480  
 LUCPPLYG.SEQG A T C A T C A T A C T T G A T A C T G T A G A A A A C A T A C A C G G T T G T 480  
 RD1561H9.SEQ T A T C A T C A T C T T G G A C A C T G T G G A G A A T A T T C A C G G T T G C 480

GRVER51.SEQ G A G A G C C T C C C T A A C T T C A T C T C T C G T T A C A G C G A T G G T A 520  
 LUCPPLYG.SEQG A A A G T C T T C C C A A T T T A T T T C T C G T T A T T C G G A T G G A A 520  
 RD1561H9.SEQG A A T C T T G C C T A A T T C A T C T C T C G C T A T T C A G A C G G C A 520

GRVER51.SEQ A T A T C G C T A A T T C A A G C C C T T G C A T T T G A T C C A G T C G A 560  
 LUCPPLYG.SEQA T A T T G C C A A C T T C A A A C C T T A C A T T A C G A T C C T G T T G A 560  
 RD1561H9.SEQA C A T C G C A A A C T T T A A A C C A C T C C A C T T C G A C C C T G T G G A 560

GRVER51.SEQ G C A A G T G G C A G C T A T T T G T G C T C C T C C G G C A C C A C T G G T 600  
 LUCPPLYG.SEQ G C A A G T G G C A G C T A T C T T A T G T T C G T C A G G C A C T A C T G G A 600  
 RD1561H9.SEQ A C A A G T T G C A G C C A T T C T G T G T A G C A G C G G T A C T A C T G G A 600

GRVER51.SEQ T T G C C T A A A G G T G T C A T G C A G A C T C A C C A G A A T A T C T G T G 640  
 LUCPPLYG.SEQ T T A C C G A A A G G T G T A A T G C A A A C T C A C C A A A A T A T T T G T G 640  
 RD1561H9.SEQ C T C C C A A A G G G A G T C A T G C A G A C C C A T C A A A A C A T T T G C G 640

GRVER51.SEQ T G C G T T T G A T C C A C G C T C T C G A C C C T C G T G T G G G T A C T C A 680  
 LUCPPLYG.SEQ T C C G A C T T A T A C A T G C T T T A G A C C C C A G G G C A G G A A C G C A 680  
 RD1561H9.SEQ T G C G T C T G A T C C A T G C T C T C G A T C C A C G C T A C G G C A C T C A 680

GRVER51.SEQ A T T G A T C C C T G G C G T G A C T G T G G T G T A T C T G C C T T T C 720  
 LUCPPLYG.SEQ A C T T A T T C C T G G T G T G A C A G T C T T A G T A T A T C T G C C T T T C 720  
 RD1561H9.SEQ G C T G A T T C C T G G T G T C A C C G T C T T G G T C T A C T T G C C T T T C 720

GRVER51.SEQ T T T C A C G C C T T T G G T T T C T C T A T T A C C C T G G G C T A T T C A 760  
 LUCPPLYG.SEQ T T C C A T G C T T T T G G G T T C T C T A T A A A C T T G G G A T A C T T C A 760  
 RD1561H9.SEQ T T C C A T G C T T T C G G C T T T C A T A T T A C T T T G G G T T A C T T T A 760

GRVER51.SEQ T G G T C G G C T T G C G T G T C A T C A T G T T T C G T C G C T T C G A C C A 800  
 LUCPPLYG.SEQ T G G T G G G T C T T C G T G T T A T C A T G T T A A G A C G A T T T G A T C A 800  
 RD1561H9.SEQ T G G T C G G T C T C C G C G T G A T T A T G T T C C G C C G T T T G A T C A 800

GRVER51.SEQ A G A A G C C T T C T T G A A G G C T A T T C A A G A C T A C G A G G T G C G T 840  
 LUCPPLYG.SEQ A G A A G C A T T T C T A A A A G C T A T T C A G G A T T A T G A A G T T C G A 840  
 RD1561H9.SEQ G G A G G C T T T C T T G A A A G C C A T C C A A G A T T A T G A A G T C C G C 840

GRVER51.SEQ T C C G T G A T C A A C G T C C C T T C A G T C A T T T G T T C C T G A G C A 880  
 LUCPPLYG.SEQ A G T G T A A T T A A C G T T C C A G C A A T A A T A T T G T T C T T A T C G A 880  
 RD1561H9.SEQ A G T G T C A T C A A C G T G C C T A G C G T G A T C C T G T T T T G T C T A 880

GRVER51.SEQ A A T C T C C T T T G G T T G A C A A A G T A T G A T C T G A G C A G C T T G C G 920  
 LUCPPLYG.SEQ A A A G T C C T T T G G T T G A C A A A T A C G A T T T A T C A A G T T T A A G 920  
 RD1561H9.SEQ A G A G C C C A C T C G T G G A C A A G T A C G A C T T G T C T T C A C T T G C G 920

GRVER51.SEQ T G A G C T G T G C T G T G G C G C T G C T C C T T G G C C A A A G A A G T G 960  
 LUCPPLYG.SEQ G G A A T T G T G T T G C G G T G C G G C A C C A T T A G C A A A A G A A G T T 960  
 RD1561H9.SEQ T G A A T T G T G T T G C G G G T G C C G C T C C A C T G G C T A A G G A G G T C 960

GRVER51.SEQ G C C G A G G T C G C T A A G G C G T C T G A A C C C T C C C T G G G T A T C C 1000  
 LUCPPLYG.SEQ G C T G A G G T T G C A G T A A A A C G A T T A A A C T T G C C A G G A A T T C 1000  
 RD1561H9.SEQ G C T G A A G T G G C C G C A A A C G C T T G A A T C T T C C A G G G A T T C 1000

GRVER51.SEQ G C T G C G G T T T T G G T T T G A C T G A G A G C A C T T C T G C T A A C A T 1040  
 LUCPPLYG.SEQ G C T G T G G A T T T G G T T T G A C A G A A T C T A C T T C A G C T A A T A T 1040  
 RD1561H9.SEQ G T G T G G C T T C G G G C C T C A C C G A A T C T A C C A G T G C G A T T A T 1040

GRVER51.SEQ C C A T A G C T T G C G A G A C G A G T T T A A G T C T G G G T A G C C T G G G T 1080  
 LUCPPLYG.SEQ A C A C A G T C T T G G G G A T G A A T T T A A A T C A G G A T C A C T T G G A 1080  
 RD1561H9.SEQ C C A G A C T C T C G G G G A T G A G T T T A A G A G C G G C T C T T T G G G C 1080

GRVER51.SEQ C G C G T G A C T C C T C T T A T G G C T G C A A A G A T C G C C G A C C G T G 1120  
 LUCPPLYG.SEQ A G A G T T A C T C C T T T A A T G G C A G C T A A A A T A G C A G A T A G G G 1120  
 RD1561H9.SEQ C G T G T C A C T C C A C T C A T G G C T G C T A A G A T C G C T G A T C G C G 1120

**FIG. 11 (cont'd)**

GRVER51.SEQ A G A C C G G C A A A G C A C T T G G G C C C A A A T C A A G T C G G T G A A T T 1160  
 LUCPPLYG.SEQ A A A C T T G G T A A A G C A T T T G G G A C C C A A A T C A A G T T G G T G A A T T 1160  
 RD1561H9.SEQ A A A C T T G G T A A G G C T T T G G G C C C G A A C C C A A G T C G G C G A G C T 1160

GRVER51.SEQ G T G T A T T A A G G G C C C T A T G G T C T C T A A A G G C T A C G T G A A C 1200  
 LUCPPLYG.SEQ A T G C G T T A A A G G T C C C A T G G T A T C G A A A G G T T A C G T G A A C 1200  
 RD1561H9.SEQ G T G T A T C A A A G G C C C T A T G G T G A G C A A G G G T T A T G T C A A T 1200

GRVER51.SEQ A A T G T G G A G G G C C A C T A A A G A A G C C A T T G A T G A T G A T G G C T 1240  
 LUCPPLYG.SEQ A A T G T A G A A G C T A C C A A A G A A G C T A T T G A T G A T G A T G G T T 1240  
 RD1561H9.SEQ A C G T T G A A G C T A C C A A G G A G G G C C A T C G A C G A C G A C G G C T 1240

GRVER51.SEQ G G C T C C A T A G C G G C G A C T T C G G T T A C T A T G A T G A G G A C G A 1280  
 LUCPPLYG.SEQ G C T T C A C T C T G G A G A C T T T G G A T A C T A T G A T G A G G A T G A 1280  
 RD1561H9.SEQ G C T T G C A T T C T G G T G A T T T G G A T A T T A C G A C G A A G A T G A 1280

GRVER51.SEQ A C A C T T C T A T G T G G T C G A T C G C T A C A A A G A A T T G A T T A A G 1320  
 LUCPPLYG.SEQ G C A T T T C T A T G T G G T G G A C C G T T A C A A G G A A T T G A T T A A A 1320  
 RD1561H9.SEQ G C A T T T T A C G T C G T G G A T C G T T A C A A G G A G C T G A T C A A A 1320

GRVER51.SEQ T A C A A A G G C T C T C A A A G T C G C A C C A G C C G A A C T G G A A G A A A 1360  
 LUCPPLYG.SEQ T A T A A G G G C T C T C A G G T A G C A C C T G C A G A A C T A G A A G G A G A 1360  
 RD1561H9.SEQ T A C A A G G G T A G C C A G G T T G C T C C A G C T G A G T T G G A G G A G A 1360

GRVER51.SEQ T T T T G C T G A A G A A C C C T T G T A T C C G C G A C G T G G C C G T C G T 1400  
 LUCPPLYG.SEQ T T T T A T T G A A A A A T C C A T G T A T C A G A G A T G T T G C T G T G G T 1400  
 RD1561H9.SEQ T C T G T T G A A A A A T C C A T G C A T T C G C G A T G T C G C T G T G G T 1400

GRVER51.SEQ G G G T A T C C C A G A C T T G G A A G C T G G C G A G T T G C C T A G C G C C 1440  
 LUCPPLYG.SEQ T G G T A T T C C T G A T C T A G A A G C T G G A G A A C T G C C A T C T G C G 1440  
 RD1561H9.SEQ C G G C A T T C C T G A T C T G G A G G C C G G C G A A C T G C C T T C T G C T 1440

GRVER51.SEQ T T T G T G G T G A A A C A A C C C G G C A A G G A G A T C A C T G C T A A G G 1480  
 LUCPPLYG.SEQ T T T G G T T A A A C A G G C C C G G A A A G G A G A T T A C A G C T A A A A G 1480  
 RD1561H9.SEQ T C G T T G T C A A A G C A G C C T G G T A C A G A A A T T A C C G C C A A A G 1480

GRVER51.SEQ A G G T C T A C G A C T A T T T G G C C G A G C G C G T G T C T C A C A C C A A 1520  
 LUCPPLYG.SEQ A A G T G T A C G A T T A T C T T G C C G A G A G G G G T C T C C C A T A C A A A 1520  
 RD1561H9.SEQ A A G T G T A T G A T T A C C T G G C T G A A C G T G T G A G G C C A T A C T A A 1520

GRVER51.SEQ A T A T C T G C G T G G C G G C G T C C G C T T C G T C G A T T C T A T T C C A 1560  
 LUCPPLYG.SEQ G T A T T T G C G T G G A G G G G T T C G A T T C G T T G A T A G C A T A C C A 1560  
 RD1561H9.SEQ G T A C T T G C G T G G C G G C G T G C G T T T G T T G A C T C C A T C C C T 1560

GRVER51.SEQ C G C A A C G T T A C C G G T A A G A T C A C T C G T A A A G A G T T G C T G A 1600  
 LUCPPLYG.SEQ A G G A A T G T T A C A G G T A A A A T T A C A A G A A A G G A A C T T C T G A 1600  
 RD1561H9.SEQ C G T A A C G T A A C A G G C A A A A T T A C C C G C A A G G A G C T G T T G A 1600

GRVER51.SEQ A G C A A C T C C T C G A A A A A G C T G G C G G C 1626  
 LUCPPLYG.SEQ A G C A G T T G C T G G A G A A G A G T T C T A A A C T T 1629  
 RD1561H9.SEQ A A C A A T T G T T G G T G A A G G C C G G C G G T 1626

**FIG. 11 (cont'd)**

GRVER51.SEQ M M K R E K N V I Y G P E P L H P L E D L T A G E M L F R A L R K H S H L P Q A 118  
 LUCPPLYG.SEQ M M K R E K N V I Y G P E P L H P L E D L T A G E M L F R A L R K H S H L P Q A 118  
 RD1561H9.SEQ M **I** K R E K N V I Y G P E P L H P L E D L T A G E M L F R A L R K H S H L P Q A 118

GRVER51.SEQ L V D V **V** G D E S L S Y K E F F E A T **V** L L A Q S L H N C G Y K M N D V V S I C 238  
 LUCPPLYG.SEQ L V D V F G D E S L S Y K E F F E A T C L L A Q S L H N C G Y K M N D V V S I C 238  
 RD1561H9.SEQ L V D V **V** G D E S L S Y K E F F E A T **V** L L A Q S L H N C G Y K M N D V V S I C 238

GRVER51.SEQ A E N N **T** R F F I P **V** I A A W Y I G M I V A P V N E S Y I P D E L C K V M G I S 358  
 LUCPPLYG.SEQ A E N N K R F F I P I I A A W Y I G M I V A P V N E S Y I P D E L C K V M G I S 358  
 RD1561H9.SEQ A E N N **T** R F F I P **V** I A A W Y I G M I V A P V N E S Y I P D E L C K V M G I S 358

GRVER51.SEQ K P Q I V F **T** T K N I L N K V L E V Q S R T N F I K R I I I L D T V E N I H G C 478  
 LUCPPLYG.SEQ K P Q I V F C T K N I L N K V L E V Q S R T N F I K R I I I L D T V E N I H G C 478  
 RD1561H9.SEQ K P Q I V F **T** T K N I L N K V L E V Q S R T N F I K R I I I L D T V E N I H G C 478

GRVER51.SEQ E S L P N F I S R Y S D G N I A N F K P L H **F** D P V E Q V A A I L C S S G T T G 598  
 LUCPPLYG.SEQ E S L P N F I S R Y S D G N I A N F K P L H Y D P V E Q V A A I L C S S G T T G 598  
 RD1561H9.SEQ E S L P N F I S R Y S D G N I A N F K P L H **F** D P V E Q V A A I L C S S G T T G 598

GRVER51.SEQ L P K G V M Q T H Q N I C V R L I H A L D P R **V** G T Q L I P G V T V L V Y L P F 718  
 LUCPPLYG.SEQ L P K G V M Q T H Q N I C V R L I H A L D P R A G T Q L I P G V T V L V Y L P F 718  
 RD1561H9.SEQ L P K G V M Q T H Q N I C V R L I H A L D P R **Y** G T Q L I P G V T V L V Y L P F 718

**GRVER51.SEQ** F H A F G F S I **T** L G Y F M V G L R V I M **F** R R F D Q E A F L K A I Q D Y E V R 838  
**LUCPPLYG.SEQ** F H A F G F S I N L G Y F M V G L R V I M L R R F D Q E A F L K A I Q D Y E V R 838  
**RD1561H9.SEQ** F H A F G F **H** I **T** L G Y F M V G L R V I M **F** R R F D Q E A F L K A I Q D Y E V R 838

**GRVER51.SEQ** S V I N V P **S** V I L F L S K S P L V D K Y D L S S L R E L C C G A A P L A K E V 958  
**LUCPPLYG.SEQ** S V I N V P A I I L F L S K S P L V D K Y D L S S L R E L C C G A A P L A K E V 958  
**RD1561H9.SEQ** S V I N V P **S** V I L F L S K S P L V D K Y D L S S L R E L C C G A A P L A K E V 958

**GRVER51.SEQ** A E V A **A** K R L N L P G I R C G F G L T E S T S A N I H S L **R** D E F K S G S L G 1078  
**LUCPPLYG.SEQ** A E V A V K R L N L P G I R C G F G L T E S T S A N I H S L G D E F K S G S L G 1078  
**RD1561H9.SEQ** A E V A **A** K R L N L P G I R C G F G L T E S T S A **I** Q **T** L G D E F K S G S L G 1078

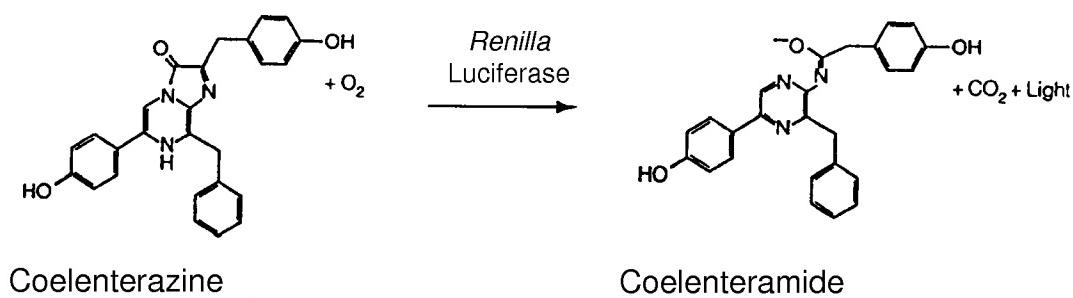
**GRVER51.SEQ** R V T P L M A A K I A D R E T G K A L G P N Q V G E L C **I** K G P M V S K G Y V N 1198  
**LUCPPLYG.SEQ** R V T P L M A A K I A D R E T G K A L G P N Q V G E L C V K G P M V S K G Y V N 1198  
**RD1561H9.SEQ** R V T P L M A A K I A D R E T G K A L G P N Q V G E L C **I** K G P M V S K G Y V N 1198

GRVER51.SEQ N V E A T K E A I D D D G W L H S G D F G Y Y D E D E H F Y V V D R Y K E L I K 1318  
 LUCPPLYG.SEQ N V E A T K E A I D D D G W L H S G D F G Y Y D E D E H F Y V V D R Y K E L I K 1318  
 RD1561H9.SEQ N V E A T K E A I D D D G W L H S G D F G Y Y D E D E H F Y V V D R Y K E L I K 1318

GRVER51.SEQ Y K G S Q V A P A E L E E I L L K N P C I R D V A V V G I P D L E A G E L P S A 1438  
 LUCPPLYG.SEQ Y K G S Q V A P A E L E E I L L K N P C I R D V A V V G I P D L E A G E L P S A 1438  
 RD1561H9.SEQ Y K G S Q V A P A E L E E I L L K N P C I R D V A V V G I P D L E A G E L P S A 1438

GRVER51.SEQ F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P 1558  
 LUCPPLYG.SEQ F V V K Q P G K E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P 1558  
 RD1561H9.SEQ F V V K Q P G **T** E I T A K E V Y D Y L A E R V S H T K Y L R G G V R F V D S I P 1558

GRVER51.SEQ R N V T G K I T R K E L L K Q L L E K **A G G** 1624  
 LUCPPLYG.SEQ R N V T G K I T R K E L L K Q L L E K S S K L 1627  
 RD1561H9.SEQ R N V T G K I T R K E L L K Q L L **V K A G G** 1624



**FIG. 17B**

**GRver5.1 DNA sequence of pGL3 vectors**

ATGGTGAACCGAAAAGAACGTGATCTACGGCCCAGAACCACTGCATCC	50
ACTGGAAGACCTCACCGCTGGTGAGATGCTCTTCCGAGCACTGCGTAAAC	100
ATAGTCACCTCCCTCAAGCACTCGGGACGTGCTGGAGACGAGAgCCTC	150
TCCTACAAAGAATTTCGAAGCTACTGTGCTGTTGCCAAAGCCTCCA	200
TAATTGTGGGTACAAATGAACGATGTGGTGAGCATTTGTGCTGAGAATA	250
ACACTCGCTTCTTATTCTGTAATCGCTGCTGGTACATGGCATGATT	300
GTCGCCCTGTGAATGAATCTACATCCCAGATGAGCTGTGTAAGGTTAT	350
GGGTATTAGCAAACCTCAAATCGTCTTACTACCAAAACATCTGAATA	400
AGGTCTTGGAAAGTCCAGTCTGTAACCTCATCAAACGCACTATTATT	450
CTGGATACCGTCGAAACATCCACGGCTGTGAGAGCCTCCCTAACATTCA	500
CTCTCGTTACAGCGATGGAATATCGCTAATTCAAGGCCCTGCATTTG	550
ATCCAGTCGAGCAAGTGGCCGCTATTTGTGCTCCCGGCACCACTGGT	600
TTGCCTAAAGGTGTCAATGCAGACTCACCAAGAATATCTGTGCGTTGAT	650
CCACGCTCTCGACCCCTCGTGTGGGTACTCAATTGATCcCTGGCGTGA	700
TGCTGGGTATCTGCTTCTTCACGCCCTGGTTCTCTATTACCTG	750
GGCTATTTCATGGTCGGCTTGCCTGTCATCATGTTCGCCTCGACCA	800
AGAAGCCTTCTGAAGGCTATTCAAGACTACGAGGTGCGTCCGTGATCA	850
ACGTCCCTTCAGTCATTGTTCTGAGCAAATCTCCTTGGTTGACAAG	900
TATGATCTGAGCAGCTTGCCTGAGCTGTGCTGTGGCGCTGCTCCTTGGC	950
CAAAGAAGTGGCCGAGGTGCGTCTAACGCTCTAACCTCCCTGGTATCC	1000
GCTCGGTTTGGTTGACTGAGAGCACTTCTGCTAACATCCATAGCTTG	1050
CGAGACGAGTTAAGTCTGGTAGCCTGGTCGCGTGACTCCTCTTATGGC	1100
TGCAAAGATCGCCGACCGTGAGACCGGAAAGCACTGGGCCAAATCAAG	1150
TCGGTGAATTGTGTATTAAGGGCCCTATGGCTCTAAAGGCTACGTGAA	1200
AATGTGGAGGCCACTAAGAACGCATTGATGATGATGGCTGGCTCCATAG	1250
CGCGACTTCGGTTACTATGATGAGGACGAACACTTCTATGTGGTCGATC	1300
GCTACAAAGAATTGATTAAGTACAAAGGCTCTAACGTCGACCCAGCGAA	1350
CTGGAAGAAATTGCTGAAGAACCTTGTATCCCGGACGTGGCCGTCGT	1400
GGGTATCCCAGACTTGGAGCTGGCGAGTTGCCTAGCGCCTTGTGGTGA	1450
AACAACCCGGCAAGGAGATCACTGCTAACGAGGTCTACGACTATTGGCC	1500
GAGCGCGTGTCTCACACCAAAATCTCGTGGCGGCGTCCGCTCGTGA	1550
TTCTATTCCACGCAACGTTACCGGTAAGATCACTCGTAAAGAGTTGCTGA	1600
AGCAACTCCTCGAAAAGCTGGCGGC	1626

**SEQ ID NO: 297****FIG. 18A**

**RDver5.1 DNA sequence of pGL3 vectors**

ATGGTGAAGCGTGAGAAAAATGTCATCTATGGCCCTGAGCCTCTCCATCC	50
TTTGGAGGATTTGACTGCCGGCAAATGCTGTTCTGCTCTCCGAAAGC	100
ACTCTcATTGCCTCAAGCTTGGTCGATGTGGTCGGCGATGAATCTTG	150
AGCTACAAGGAGTTTTGAGGCAACCGCTTGCTGGCTCAGTCCCTCCA	200
CAATTGGCTACAAGATGAACGACGTCGTTAGTATCTGTGCTGAAAACA	250
ATACCCGTTCTTCATTCCAGTCATGCCGCATGGTATATCGGTATGATC	300
GTGGCTCCAGTCAACGAGAGCTACATCCCGACGAACGTGAAAGTCAT	350
GGGTATCTCTAAGCCACAGATTGTCCTCACCCTAAGAATATTCTGAACA	400
AAGTCCTGGAAGTCCAAAGCCGCACCAACTTTATTAAAGCGTATCATCATC	450
TTGGACACTGTGGAGAATATTCA CGGTTGCGAATCTTGCTAATTTCAT	500
CTCTCGCTATTCA GAGCGCAACATCGCAA ACTTTAAACCAC TCCACTTCG	550
ACCCCTGTGGAACAAGTTGCA GGCATTCTGTGTA CGAGCGGTACTACTGGA	600
CTCCCAAAGGGAGTCATGCA GACCCATCAAACATTGCGTGC GTCTGAT	650
CCATGCTCTCGATCCACGCTACGGCACTCAGCTGATT CCTGGTGT CACCG	700
TCTTGGTCTACTTG CTTTCCATGCTT CGGCTT CATATTACTTTG	750
GGTTACTTTATGGT CGGTCTCGCGT GATTATGTTCCGCGTTT GATCA	800
GGAGGCTTCTGAAAGCCATCCAAGATTATGAAGTCCGAGTGT CATCA	850
ACGTGCCTAGCGTGATCCTGTTTGCTAAGAGGCCACTCGTGGACAAG	900
TACGACTTGTCTTCACTGCGTGAATTGTTGCGGTGCCGCTCCACTGGC	950
TAAGGAGGTCGCTGAAGTGGCGCCAAACGCTTGAATCTTCAGGGATT	1000
GTTGTGGCTTCGGCCTCACCGAATCTACCAGCGCTATTATTCA GTCTCTC	1050
CGCGATGAGTTAAAGAGCGGCCTTTGGGCCGTGCACTCCACTCATGGC	1100
TGCTAAAGATCGCTGATCGCGAAACTGGTAAGGCTTGGGCCGAACCAAG	1150
TGGCGAGCTGTGATCAAAGGCCCTATGGTGAGCAAGGGTTATGTCAAT	1200
AACGTTGAAGCTACCAAGGAGGCCATCGACGACGACGGCTGGTTGCATT	1250
TGGTGAATTGGATATTACGACGAAGATGAGCATTTTACGTG TGATC	1300
GTTACAAGGAGCTGATCAAATACAAGGGTAGCCAGGTTGCTCAGCTGAG	1350
TTGGAGGAGATTCTGTTGAAAAATCCATGCATTCCGATGTCGCTGTGGT	1400
CGGCATTCCCTGATCTGGAGGCCGGCAACTGCCTTCTGCTTGTGTTGTCA	1450
AGCAGCCTGGTAAAGAAATTACGCCAAGAAGTGTATGATTACCTGGCT	1500
GAACGTGTGAGCCATACTAAGTACTTGC GTGGCGCGTGC GTTTGTTGA	1550
CTCCATCCCTCGTAACGTAACAGGCAAATTACCCGCAAGGAGCTGTTGA	1600
AACAATTGTTGGAGAAGGCCGGCGT	1626

**SEQ ID NO: 299****FIG. 18A (cont'd)**

**RD1561H9 DNA sequence of pGL3 vectors**

ATGGTAAAGCGTGAGAAAAATGTCATCTATGGCCCTGAGCCTCTCCATCC	50
TTTGGAGGATTTGACTGCCGGCGAAATGCTGTTCTCGCTCTCCGCAAGC	100
ACTCTCATTTGCCCTCAAGCCTTGGTCGATGTGGTCGGCGATGAATCTTG	150
AGCTACAAGGAGTTTTGAGGCAACCGTCTGCTGGCTCAGTCCCTCCA	200
CAATTGTCGGCTACAAGATGAACGACGTCGTTAGTATCTGTGCTGAAAACA	250
ATACCCGTTCTTCATTCCAGTCATGCCGCATGGTATATCGGTATGATC	300
GTGGCTCCAGTCAGCAGAGCTACATCCCGACGAACGTGTAAAGTCAT	350
GGGTATCTCTAACGCCACAGATTGTCCTCACCAACTAAGAATATTCTGAACA	400
AAGTCCTGGAAGTCCAAAGCCGCACCAACTTTATTAGCGTATCATCATC	450
TTGGACACTGTGGAGAATATTACGGTTGCGAATCTTGCTTAATTTCAT	500
CTCTCGTATTACGACGGCAACATCGCAAACCTTAAACCACCTCCACTCG	550
ACCCCTGTGGAACAAGTTGCAAGGCCATTCTGTGTAGCAGCGGTACTACTGGA	600
CTCCCCAAAGGGAGTCATGCAGACCCATCAAACATTGCGTGCCTGAT	650
CCATGCTCTCGATCCACGCTACGGCACTCAGCTGATTCCCTGGTGTACCG	700
TCTTGGCTACTTGCTTCTTCATGCTTCGGCTTCATATTACTTTG	750
GGTTACTTTATGGTCGGTCTCCGCGTGAATTGTTCCGCCGTTTGATCA	800
GGAGGCTTCTTGAAGCCATCCAAGATTATGAAGTCCGCAGTGTCA	850
ACGTGCCTAGCGTGATCTGTTTGTCTAAGAGGCCACTCGTGGACAAG	900
TACGACTTGTCTTCACTGCGTGAATTGTTGCGGGTGCCGCTCCACTGGC	950
TAAGGAGGTCGCTGAAGTGGCGCCAAACGCTTGAATCTTCAGGGATTG	1000
GTTGTGGCTTCGGCTCACCGAATCTACCAAGTGCATTATCCAGACTCTC	1050
GGGGATGAGTTAACGAGCGGTCTTGGGCCGTGCACTCCACTCATGGC	1100
TGCTAAGATCGCTGATCGCGAAACTGGTAAGGCTTGGGCCGAACCAAG	1150
TGGCGAGCTGTGTATCAAAGGCCCTATGGTGAGCAAGGGTTATGTCAAT	1200
AAACGTTGAAGCTACCAAGGAGGCCATCGACGACGGCTGGTTGCATTG	1250
TGGTATTGGATATTACGACGAAGATGAGCATTTACGTCGTGGATC	1300
GTTACAAGGAGCTGATCAAATACAAGGGTAGCCAGGTTGCTCCAGCTGAG	1350
TTGGAGGAGATTCTGTTGAAAAATCCATGCATTGCGATGTCGCTGTGGT	1400
CGGCATTCTGATCTGGAGGCCGGCAACTGCCTTCTGCTTCTGTC	1450
AGCAGCCTGGTACAGAAATTACCGCAAAGAAGTGTATGATTACCTGGCT	1500
GAACGTGTGAGCCATACTAAGTACTTGCCTGGCGGTGCGTTTGTTGA	1550
CTCCATCCCTCGTAACGTAACAGGCAAATTACCCGAAGGAGCTGTTGA	1600
AACAATTGTTGGTGAAGGCCGGCGGT	1626

**SEQ ID NO: 301****FIG. 18A (cont'd)**

**GRver5.1 protein sequence of pGL3 vectors**

MVKREKNIYGPPEPLHPLEDTAGEMLFRALRKHSHPQALVDVVGDESL 50  
 SYKEFFFEATVLLAQLSLHNCGYKMNDVVSICAENNTRFFIPVIAAWYIGMI 100  
 VAPVNESYIPDELCKVMGISKPQIVFTTKNILNKLEVQSRTNFIKRIII 150  
 LDTVENIHGCESLPNFISRYSDGNIANFKPLHFDPVEQVAAILCSSGTG 200  
 LPKGVMQTHQNICVRLIHALDPRVGTQLIPGVTVLVYLPFFHAFGFSTL 250  
 GYFMVGLRVIMFRRFDQEAEFLKAIQDYEVRSVINVPSPVILFLSKSPLVDK 300  
 YDLSSLRELCCGAAPLAKEVAEVAAKRNLPGIRCGFGLTESTSANIHL 350  
 RDEFKSGSLGRVTPLMAAKIADRETGKALGPNQVGELCIKGPMVSKGYVN 400  
 NVEATKEAIDDDGWLHSGDFGYYDEDEHFYVVDRYKELIKYKGSQVAPAE 450  
 LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGKEITAKEVYDYL 500  
 ERVSHTKYLRGGVRFVDSIPRNVTGKITRKELLKQLLEKAGG 542

**SEQ ID NO: 298****RDver5.1 protein sequence of pGL3 vectors**

MVKREKNIYGPPEPLHPLEDTAGEMLFRALRKHSHPQALVDVVGDESL 50  
 SYKEFFFEATVLLAQLSLHNCGYKMNDVVSICAENNTRFFIPVIAAWYIGMI 100  
 VAPVNESYIPDELCKVMGISKPQIVFTTKNILNKLEVQSRTNFIKRIII 150  
 LDTVENIHGCESLPNFISRYSDGNIANFKPLHFDPVEQVAAILCSSGTG 200  
 LPKGVMQTHQNICVRLIHALDPRYGTQLIPGVTVLVYLPFFHAFGFHITL 250  
 GYFMVGLRVIMFRRFDQEAEFLKAIQDYEVRSVINVPSPVILFLSKSPLVDK 300  
 YDLSSLRELCCGAAPLAKEVAEVAAKRNLPGIRCGFGLTESTSAIIQSL 350  
 RDEFKSGSLGRVTPLMAAKIADRETGKALGPNQVGELCIKGPMVSKGYVN 400  
 NVEATKEAIDDDGWLHSGDFGYYDEDEHFYVVDRYKELIKYKGSQVAPAE 450  
 LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGKEITAKEVYDYL 500  
 ERVSHTKYLRGGVRFVDSIPRNVTGKITRKELLKQLLEKAGG 542

**SEQ ID NO: 300****RD1561H9 protein sequence of pGL3 vectors**

MVKREKNIYGPPEPLHPLEDTAGEMLFRALRKHSHPQALVDVVGDESL 50  
 SYKEFFFEATVLLAQLSLHNCGYKMNDVVSICAENNTRFFIPVIAAWYIGMI 100  
 VAPVNESYIPDELCKVMGISKPQIVFTTKNILNKLEVQSRTNFIKRIII 150  
 LDTVENIHGCESLPNFISRYSDGNIANFKPLHFDPVEQVAAILCSSGTG 200  
 LPKGVMQTHQNICVRLIHALDPRYGTQLIPGVTVLVYLPFFHAFGFHITL 250  
 GYFMVGLRVIMFRRFDQEAEFLKAIQDYEVRSVINVPSPVILFLSKSPLVDK 300  
 YDLSSLRELCCGAAPLAKEVAEVAAKRNLPGIRCGFGLTESTSAIIQTL 350  
 GDEFKSGSLGRVTPLMAAKIADRETGKALGPNQVGELCIKGPMVSKGYVN 400  
 NVEATKEAIDDDGWLHSGDFGYYDEDEHFYVVDRYKELIKYKGSQVAPAE 450  
 LEEILLKNPCIRDVAVVGIPDLEAGELPSAFVVKQPGTEITAKEVYDYL 500  
 ERVSHTKYLRGGVRFVDSIPRNVTGKITRKELLKQLLVKAGG 542

**SEQ ID NO: 302****FIG. 18A (cont'd)**